# Blazer Bond

Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue : 01/18/19 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Trade name : Blazer Bond

Other means of identification : Cyanoacrylate Adhesive
Superglue

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fletching vanes, gluing nocks

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Flam. Liq. 4 H227
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

**WHMIS Classification**

Class B Division 3 - Combustible Liquid

### 2.2. Label elements

other hazards which do not result in classification : Cyanoacrylates bond to tissue and skin; rapidly and strongly. A large drop may cause burn upon solidification. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Multi-constituent

Name : Blazer Bond (need to be updated EU CLP- Canadian is OK)

| Name | Product identifier | % | GHS-US classification | WHMIS Classification |
|---|---|---|---|---|
| Ethyl cyanoacrylate | (CAS No) 7085-85-0 | 80 - 95 | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 | Class B Division 3 - Combustible Liquid |
| Methyl methacrylate polymer | (CAS No) 9011-14-7 | 5 - 10 | Not classified | Class B Division 3 - Combustible Liquid |

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.

First-aid measures after skin contact : Quickly soak in warm water and avoid use of excessive force to free bonded area. If unable to free bonded area, or if lips or mouth are bonded, get medical attention. Do not use force or solvents to remove product incrustations from affected skin areas. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : If eyelids are bonded closed release eyelashes with warm water by covering the eye with a wet pad. Do not force eyelids open. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. If lips are accidentally stuck together apply lots of warm water and encourage maximum wetting and pressure from saliva inside the mouth. Do not try to pull the lips with direct opposing action.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Irritating to the nose, throat, and respiratory tract. Difficulty breathing and tightness in the chest. Burning in the nasal passage.

Symptoms/injuries after skin contact : Causes skin irritation. Cyanoacrylates bond to tissue and skin; rapidly and strongly. A large drop may cause burn upon solidification.

Symptoms/injuries after eye contact : Causes serious eye irritation. Risk of damage to eyes. This material or its emissions may defat skin, cause contact dermatitis, or aggravate existing skin disease.

Symptoms/injuries after ingestion : Unlikely route of exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : Closed containers exposed to heat from fire may build pressure and explode.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. Use water spray or fog for cooling exposed containers.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. In the event of a fire, wear a CEN (EU) or NIOSH (US) approved, positive- pressure, self-contained breathing apparatus (SCBA) and full protective clothing.

Other information : Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Closed containers exposed to heat from fire may build pressure and explode. On combustion, forms: carbon oxides (CO and CO2). Nitrogen oxides (NOx). Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Vapors exceeding the flash point will ignite when exposed to flame. DO NOT Use cotton, PVC or wool.

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Wear protective gloves and protective clothing. For further information refer to section 8 : Exposure-controls/personal protection.

Emergency procedures : Evacuate unnecessary personnel. Exclude sources of ignition and ventilate the area.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Complete protective clothing.

Emergency procedures : Ventilate area. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small Spill Cleanup: Do not use cloths for clean-up. Flood spilled material with water to polymerize. Cured material can be scraped up. Large Spill Cleanup: Large spills be dike off and flood spilled material with water to polymerize. Cured material can be scraped up. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area. Avoid contact with paper goods or fabric. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors.

Hygiene measures : Do not eat, drink or smoke when using this product. Remove contaminated clothing immediately. Take care for general good hygiene and housekeeping.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Facilities: shower, eye shower. Provide adequate ventilation. Local exhaust ventilation is recommended to maintain vapor level below the threshold limit value (TLV).

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container tightly closed. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.

Incompatible materials : Avoid contact with paper goods or fabric. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors. Keep away from strong acids, strong bases and oxidizing agents. Protect from moisture. DO NOT Use cotton, PVC or wool. Avoid contact with paper goods or fabric. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors.

Storage area : Ensure adequate ventilation of the storage area. Smoking, eating and drinking should be prohibited in areas of storage and use.

Special rules on packaging : correctly labelled.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Ethyl cyanoacrylate (7085-85-0) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 0.2 ppm |
| Alberta | OEL TWA (mg/m³) | 1 mg/m³ |
| Alberta | OEL TWA (ppm) | 0.2 ppm |
| British Columbia | OEL TWA (ppm) | 0.2 ppm |
| Manitoba | OEL TWA (ppm) | 0.2 ppm |
| New Foundland & Labrador | OEL TWA (ppm) | 0.2 ppm |
| Nova Scotia | OEL TWA (ppm) | 0.2 ppm |
| Ontario | OEL TWA (ppm) | 0.2 ppm |
| Prince Edward Island | OEL TWA (ppm) | 0.2 ppm |
| Saskatchewan | OEL STEL (ppm) | 0.6 ppm |
| Saskatchewan | OEL TWA (ppm) | 0.2 ppm |

### 8.2. Exposure controls

Appropriate engineering controls : Local exhaust ventilation is recommended to maintain vapor level below the threshold limit value (TLV). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Avoid all unnecessary exposure.

Materials for protective clothing : DO NOT Use cotton, PVC or wool. Avoid contact with paper goods or fabric. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors.

Hand protection : Wear Polyethylene or non reactive.

Eye protection : Chemical goggles or safety glasses. with side-shields.

Skin and body protection : Use chemically protective clothing.

Respiratory protection : Wear appropriate mask. In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls : Avoid release to the environment.

Consumer exposure controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Appearance | : clear. liquid. |
| Colour | : clear. |
| odour | : Sharp. Irritating. |
| Odour threshold | : 1 - 2 ppm |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : > 148.89 °C ( > 300 °F ) |
| Flash point | : 65.55 - 93.33 °C (150 - 200 °F ) (Tag Closed Cup) |
| Self ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : < 0.2 mm Hg @ 25°C |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.06 at 20 °C Specific Gravity (H2O = 1) |
| Solubility | : Water: Negligible solubility. Polymerized by water |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

### 9.2. Other information

VOC content : < 20 g/l ( <2% estimated)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established. Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Polymerized by contact with water, alcohols, amines and alkalis.

### 10.5. Incompatible materials

strong acids. Strong bases. Water. alcohols. Amines. alkalis. Peroxides. Natural fibres (e.g. cotton). DO NOT Use cotton, PVC or wool.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Amines. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | |
|---|---|
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified. Based on available data, the classification criteria are not met |

| | | |
|---|---|---|
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified. Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : | Not classified. Based on available data, the classification criteria are not met |
| Aspiration hazard | : | Not classified. Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : | Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : | Irritating to the nose, throat, and respiratory tract. Difficulty breathing and tightness in the chest. Burning in the nasal passage. |
| Symptoms/injuries after skin contact | : | Causes skin irritation. Cyanoacrylates bond to tissue and skin; rapidly and strongly. A large drop may cause burn upon solidification. |
| Symptoms/injuries after eye contact | : | Causes serious eye irritation. Risk of damage to eyes. This material or its emissions may defat skin, cause contact dermatitis, or aggravate existing skin disease. |
| Symptoms/injuries after ingestion | : | Unlikely route of exposure. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Blazer Bond | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Blazer Bond | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Waste Disposal Method: Polymerize material fully with water and then bury in a suitable landfill as permitted by government regulations. This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| Blazer Bond | |
|---|---|
| WHMIS Classification | Class B Division 3 - Combustible Liquid |

| Ethyl cyanoacrylate (7085-85-0) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Class B Division 3 - Combustible Liquid |

### 15.2. International regulations

| Ethyl cyanoacrylate (7085-85-0) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

| Ethyl cyanoacrylate (7085-85-0) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

**Classificatic n according to Regulation (EC) No. 1272/2008 [CLP]**

Skin Irrit. 2 H315
Eye Irrit. 2 H319
STOT SE 3 H335

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Xi; R36/37/38

Full text of R-phrases: see section 16

**15.2.2. National regulations**

| Ethyl cyanoacrylate (7085-85-0) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

| | |
|---|---|
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 4 | flammable liquids Category 4 |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |

| | |
|---|---|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

**HMIS III Rating**

| | |
|---|---|
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 2 Moderate Hazard |
| Physical | : 1 Slight Hazard |

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Crest-Lac RD,OR,YE,PU,NR,NO,NY,NG

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 18 January 2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Crest-Lac RD,OR,YE,PU,NR,NO,NY,NG

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Archery Cresting Paint

### 1.3. Supplier

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

| | | |
|---|---|---|
| Skin sensitisation, Category 1 | H317 | May cause an allergic skin reaction |

### 2.2. GHS Label elements, including precautionary statements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US) : P261 - Avoid breathing fume, mist, spray, vapors
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective clothing, protective gloves, eye protection
P302+P352 - If on skin: Wash with plenty of water
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol | (CAS-No.) 9014-85-1 | 1 - 7 | Eye Irrit. 2, H319 |
| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- | (CAS-No.) 2897-60-1 | 0.1 - 0.5 | Skin Sens. 1, H317 |
| 2-Pyrrolidinone, 1-octyl- | (CAS-No.) 2687-94-7 | 0.05 - 0.1 | Skin Corr. 1B, H314 |

Full text of hazard classes and H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Prolonged exposure to liquid may cause a mild irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Prolonged contact may cause slight irritation.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause stomach pain or discomfort.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Minimal fire hazard. Combustion may produce irritating fumes.

Explosion hazard : None known.

Reactivity : Stable under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For disposal of residues refer to section 13 : Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid breathing fume/mist/vapors/spray.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Storage conditions | : | Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use. |
| Incompatible materials | : | Strong oxidizing agents. Strong acid. Strong bases. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**2-Pyrrolidinone, 1-octyl- (2687-94-7)**

Not applicable

**Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1)**

Not applicable

**Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1)**

Not applicable

### 8.2. Appropriate engineering controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapor concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |

### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Impervious gloves e.g. PVC, nitrile rubber, butyl rubber

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Long sleeved protective clothing

**Respiratory protection:**

Use a properly fitted, air-purifying or air-fed respirator if necessary.

**Other information:**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Opaque, clear |
| Odor | : | Mild odor, characteristic |
| Odor threshold | : | No data available |
| pH | : | 7.5 - 8.5 |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | > 100 °C |
| Flash point | : | > 100 °C |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Relative evaporation rate (ether=1) | : | Slower than ether |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Solubility | : | Water: dilutable |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |

| | | |
|---|---|---|
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive limits | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Combustion may produce irritating fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion; Inhalation; Skin and Eye contact |
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Serious eye damage/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Respiratory or skin sensitisation | : | May cause an allergic skin reaction. |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| Specific target organ toxicity (single exposure) | : | Not classified |
| Specific target organ toxicity (repeated exposure) | : | Not classified |
| Aspiration hazard | : | Not classified |
| Symptoms/effects after inhalation | : | Prolonged exposure to liquid may cause a mild irritation. |
| Symptoms/effects after skin contact | : | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : | Prolonged contact may cause slight irritation. |
| Symptoms/effects after ingestion | : | May be harmful if swallowed. May cause stomach pain or discomfort. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| | | |
|---|---|---|
| Ecology - general | : | The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |

### 12.2. Persistence and degradability

| **Crest-Lac RD,OR,YE,PU** | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Crest-Lac RD,OR,YE,PU | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to comply with applicable local, national and international regulation.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

**CANADA**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on ELINCS (European List of Notified Chemical Substances) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the EU NLP (No Longer Polymers) inventory |

**National regulations**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Date of Issue : 14 March 2017

Other information : None.

Full text of H-statements:

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H411 | Toxic to aquatic life with long lasting effects |

Abbreviations and acronyms:

| | |
|---|---|
| PVC | Polyvinyl chloride |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Crest-Lac BL,PK,BK,TL,GN,HP,GO,SL

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 18 January 2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Crest-Lac BL,PK,BK,TL,GN,HP,GO,SL

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Archery Cresting Paint

### 1.3. Supplier

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction

### 2.2. GHS Label elements, including precautionary statements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US) : P261 - Avoid breathing fume, mist, spray, vapors
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective clothing, protective gloves, eye protection
P302+P352 - If on skin: Wash with plenty of water
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol | (CAS-No.) 9014-85-1 | 1 - 7 | Eye Irrit. 2, H319 |
| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- | (CAS-No.) 2897-60-1 | 0.1 - 0.5 | Skin Sens. 1, H317 |
| 2-Pyrrolidinone, 1-octyl- | (CAS-No.) 2687-94-7 | 0.05 - 0.1 | Skin Corr. 1B, H314 |

Full text of hazard classes and H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Prolonged exposure to liquid may cause a mild irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Prolonged contact may cause slight irritation.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause stomach pain or discomfort.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Minimal fire hazard. Combustion may produce irritating fumes.

Explosion hazard : None known.

Reactivity : Stable under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For disposal of residues refer to section 13 : Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid breathing fume/mist/vapors/spray.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Storage conditions | : | Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use. |
| Incompatible materials | : | Strong oxidizing agents. Strong acid. Strong bases. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**2-Pyrrolidinone, 1-octyl- (2687-94-7)**

Not applicable

**Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1)**

Not applicable

**Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1)**

Not applicable

### 8.2. Appropriate engineering controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapor concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |

### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Impervious gloves e.g. PVC, nitrile rubber, butyl rubber

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Long sleeved protective clothing

**Respiratory protection:**

Use a properly fitted, air-purifying or air-fed respirator if necessary.

**Other information:**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Opaque, clear |
| Odor | : | Mild odor, characteristic |
| Odor threshold | : | No data available |
| pH | : | 7.5 - 8.5 |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | > 100 °C |
| Flash point | : | > 100 °C |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Relative evaporation rate (ether=1) | : | Slower than ether |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Solubility | : | Water: dilutable |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |

| | | |
|---|---|---|
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive limits | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Combustion may produce irritating fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion; Inhalation; Skin and Eye contact |
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Serious eye damage/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Respiratory or skin sensitisation | : | May cause an allergic skin reaction. |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| Specific target organ toxicity (single exposure) | : | Not classified |
| Specific target organ toxicity (repeated exposure) | : | Not classified |
| Aspiration hazard | : | Not classified |
| Symptoms/effects after inhalation | : | Prolonged exposure to liquid may cause a mild irritation. |
| Symptoms/effects after skin contact | : | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : | Prolonged contact may cause slight irritation. |
| Symptoms/effects after ingestion | : | May be harmful if swallowed. May cause stomach pain or discomfort. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| | | |
|---|---|---|
| Ecology - general | : | The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |

### 12.2. Persistence and degradability

| Crest-Lac BL,PK,BK,TL,GN | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Crest-Lac BL,PK,BK,TL,GN | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to comply with applicable local, national and international regulation.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

**CANADA**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on ELINCS (European List of Notified Chemical Substances) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the EU NLP (No Longer Polymers) inventory |

**National regulations**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Date of Issue : 14 March 2017

Other information : None.

Full text of H-statements:

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H411 | Toxic to aquatic life with long lasting effects |

Abbreviations and acronyms:

| | |
|---|---|
| PVC | Polyvinyl chloride |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Crest-Lac Clear

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 18 January 2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Crest-Lac Clear

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Archery Cresting Paint

### 1.3. Supplier

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction

### 2.2. GHS Label elements, including precautionary statements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US) : P261 - Avoid breathing fume, mist, spray, vapors
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective clothing, protective gloves, eye protection
P302+P352 - If on skin: Wash with plenty of water
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol | (CAS-No.) 9014-85-1 | 1 - 7 | Eye Irrit. 2, H319 |
| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- | (CAS-No.) 2897-60-1 | 0.1 - 0.5 | Skin Sens. 1, H317 |
| 2-Pyrrolidinone, 1-octyl- | (CAS-No.) 2687-94-7 | 0.05 - 0.1 | Skin Corr. 1B, H314 |

Full text of hazard classes and H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Prolonged exposure to liquid may cause a mild irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Prolonged contact may cause slight irritation.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause stomach pain or discomfort.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Minimal fire hazard. Combustion may produce irritating fumes.

Explosion hazard : None known.

Reactivity : Stable under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For disposal of residues refer to section 13 : Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid breathing fume/mist/vapors/spray.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Storage conditions | : | Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use. |
| Incompatible materials | : | Strong oxidizing agents. Strong acid. Strong bases. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**2-Pyrrolidinone, 1-octyl- (2687-94-7)**

Not applicable

**Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1)**

Not applicable

**Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1)**

Not applicable

### 8.2. Appropriate engineering controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapor concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |

### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Impervious gloves e.g. PVC, nitrile rubber, butyl rubber

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Long sleeved protective clothing

**Respiratory protection:**

Use a properly fitted, air-purifying or air-fed respirator if necessary.

**Other information:**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Opaque, clear |
| Odor | : | Mild odor, characteristic |
| Odor threshold | : | No data available |
| pH | : | 7.5 - 8.5 |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | > 100 °C |
| Flash point | : | > 100 °C |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Relative evaporation rate (ether=1) | : | Slower than ether |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Solubility | : | Water: dilutable |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |

| | | |
|---|---|---|
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive limits | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Combustion may produce irritating fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion; Inhalation; Skin and Eye contact |
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Serious eye damage/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Respiratory or skin sensitisation | : | May cause an allergic skin reaction. |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| Specific target organ toxicity (single exposure) | : | Not classified |
| Specific target organ toxicity (repeated exposure) | : | Not classified |
| Aspiration hazard | : | Not classified |
| Symptoms/effects after inhalation | : | Prolonged exposure to liquid may cause a mild irritation. |
| Symptoms/effects after skin contact | : | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : | Prolonged contact may cause slight irritation. |
| Symptoms/effects after ingestion | : | May be harmful if swallowed. May cause stomach pain or discomfort. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| | | |
|---|---|---|
| Ecology - general | : | The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |

### 12.2. Persistence and degradability

| **Crest-Lac Clear** | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Crest-Lac Clear | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to comply with applicable local, national and international regulation.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

**CANADA**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on ELINCS (European List of Notified Chemical Substances) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the EU NLP (No Longer Polymers) inventory |

**National regulations**

| **2-Pyrrolidinone, 1-octyl- (2687-94-7)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| **Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| **Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Date of Issue : 14 March 2017

Other information : None.

Full text of H-statements:

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H411 | Toxic to aquatic life with long lasting effects |

Abbreviations and acronyms:

| | |
|---|---|
| PVC | Polyvinyl chloride |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Crest-Lac White

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 18 January 2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Crest-Lac White

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Archery Cresting Paint

### 1.3. Supplier

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction

### 2.2. GHS Label elements, including precautionary statements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US) : P261 - Avoid breathing fume, mist, spray, vapors
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective clothing, protective gloves, eye protection
P302+P352 - If on skin: Wash with plenty of water
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol | (CAS-No.) 9014-85-1 | 1 - 7 | Eye Irrit. 2, H319 |
| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- | (CAS-No.) 2897-60-1 | 0.1 - 0.5 | Skin Sens. 1, H317 |
| 2-Pyrrolidinone, 1-octyl- | (CAS-No.) 2687-94-7 | 0.05 - 0.1 | Skin Corr. 1B, H314 |

Full text of hazard classes and H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Prolonged exposure to liquid may cause a mild irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Prolonged contact may cause slight irritation.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause stomach pain or discomfort.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Minimal fire hazard. Combustion may produce irritating fumes.

Explosion hazard : None known.

Reactivity : Stable under normal conditions of use.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For disposal of residues refer to section 13 : Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid breathing fume/mist/vapors/spray.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from incompatible materials. Keep container closed when not in use.

Incompatible materials : Strong oxidizing agents. Strong acid. Strong bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**2-Pyrrolidinone, 1-octyl- (2687-94-7)**

Not applicable

**Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1)**

Not applicable

**Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1)**

Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapor concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Impervious gloves e.g. PVC, nitrile rubber, butyl rubber

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Long sleeved protective clothing

**Respiratory protection:**

Use a properly fitted, air-purifying or air-fed respirator if necessary.

**Other information:**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Opaque, white |
| Odor | : | Mild odor, characteristic |
| Odor threshold | : | No data available |
| pH | : | 7.5 - 8.5 |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | > 100 °C |
| Flash point | : | > 100 °C |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Relative evaporation rate (ether=1) | : | Slower than ether |
| Flammability (solid, gas) | : | Not applicable |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Solubility | : | Water: dilutable |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |

| | | |
|---|---|---|
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive limits | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Combustion may produce irritating fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion; Inhalation; Skin and Eye contact |
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Serious eye damage/irritation | : | Not classified<br>pH: 7.5 - 8.5 |
| Respiratory or skin sensitisation | : | May cause an allergic skin reaction. |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| Specific target organ toxicity (single exposure) | : | Not classified |
| Specific target organ toxicity (repeated exposure) | : | Not classified |
| Aspiration hazard | : | Not classified |
| Symptoms/effects after inhalation | : | Prolonged exposure to liquid may cause a mild irritation. |
| Symptoms/effects after skin contact | : | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : | Prolonged contact may cause slight irritation. |
| Symptoms/effects after ingestion | : | May be harmful if swallowed. May cause stomach pain or discomfort. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| | | |
|---|---|---|
| Ecology - general | : | The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |

### 12.2. Persistence and degradability

| **Crest-Lac White** | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Crest-Lac White | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to comply with applicable local, national and international regulation.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

**CANADA**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

| 2-Pyrrolidinone, 1-octyl- (2687-94-7) |
|---|
| Listed on ELINCS (European List of Notified Chemical Substances) |

| Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1) |
|---|
| Listed on the EU NLP (No Longer Polymers) inventory |

**National regulations**

| **2-Pyrrolidinone, 1-octyl- (2687-94-7)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| **Silane, diethoxymethyl[3-(oxiranylmethoxy)propyl]- (2897-60-1)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

| **Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol (9014-85-1)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical<br>Listed on the TCSI (Taiwan Chemical Substance Inventory) |

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Date of Issue : 14 March 2017

Other information : None.

Full text of H-statements:

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H411 | Toxic to aquatic life with long lasting effects |

Abbreviations and acronyms:

| | |
|---|---|
| PVC | Polyvinyl chloride |

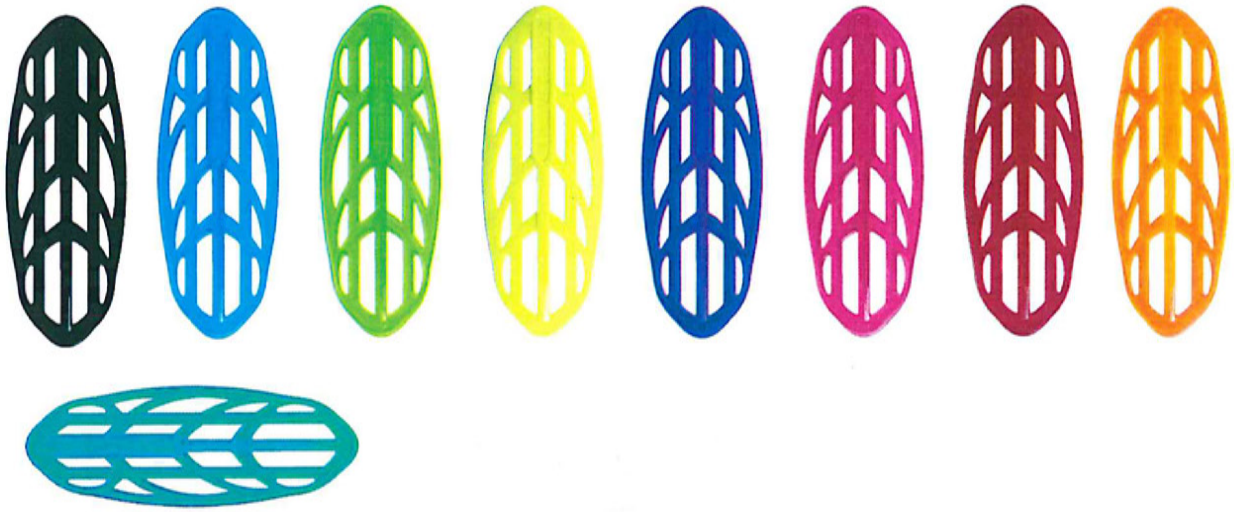
SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

**Bohning Co. ltd**

**D-Flector Armguard:** Manufacturer part numbers 801092NYEU, 801092WHEU, 801092BKEU, 801092TLEU, 801092PUEU, 801092RUEU, 801092TGEU, 801092KWEU, 801092EBEU, 801092RSEU

This declaration of conformity is issued under the sole responsibility of the manufacturer, Bohning Co. ltd. Bohning Co, ltd declares that this PPE is in conformity with **Regulation (EU) 2016/425** & **Directive 89/686/EEC**



Signature: _____

Date: 21 December 2016

Place: Lake City, Michigan, USA

Printed name: Holly Henrickson

Title: Director of International Sales

# Feather-Dri

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 07/30/2015 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Substance

Trade name : Feather-Dri

Other means of identification : Silane, dichlorodimethyl, reaction products with silica

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Make natural feather impervious

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:
Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

### 2.2. Label elements

**GHS-US labelling**

No labelling applicable

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance type : Mono-constituent

Name : Feather-Dri

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Silane, dichlorodimethyl-, reaction products with silica | (CAS No) 68611-44-9 | 100 | Not classified |

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. (for at least 15 minutes). Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. If user operations generate dust or fumes: May cause irritation to the skin and eyes. May cause respiratory irritation. Pre-existing eye and respiratory disorders may be aggravated by exposure. May aggravate asthma and dermatitis.

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : Dust from this product may cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Control airborne concentrations below the exposure limits. Avoid inhalation of product. Spilled material may present a slipping hazard. Wear suitable protective clothing and eye/face protection.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing powdered dust. Wear suitable protective clothing.

Emergency procedures : Ventilate area. Avoid raising powdered materials into airborne dust.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Avoid raising powdered materials into airborne dust.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid raising powdered materials into airborne dust. Avoid inhalation of product. Avoid breathing dust.

Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.

Incompatible materials : Strong acid. Strong bases. Strong oxidizing agent.

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : Correctly labelled. Store in a closed container. Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Feather-Dri | | |
|---|---|---|
| OSHA | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ (dust) |

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing. Dust formation: dust mask.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Long sleeved protective clothing. Safety foot-wear. Wear personal protection equipment.

Respiratory protection : Wear appropriate mask.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder.

Color : white

Odor : Odorless

Odor threshold : No data available

pH : 3.7 - 5.5 40 g/L Medium: water/methanol 1:1 suspension

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : No data available

Relative density : No data available

Relative vapor density at 20 °C : No data available

Density : 2 g/cm³ (20 °C )

Solubility : Insoluble in water.

Log Pow : No data available

Auto-ignition temperature : > 400 °C (752 °F)

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. With temperatures > 300 °C (572 °F), hydrophobicity is lost.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Silicon dioxide. Formaldehyde.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion; Inhalation; Skin and eye contact |
| Acute toxicity | : | Not classified<br>Based on available data, the classification criteria are not met |
| Skin corrosion/irritation | : | Not classified<br>Based on available data, the classification criteria are not met<br>pH: 3.7 - 5.5 40 g/L Medium: water/methanol 1:1 suspension |
| Serious eye damage/irritation | : | Not classified<br>Based on available data, the classification criteria are not met<br>pH: 3.7 - 5.5 40 g/L Medium: water/methanol 1:1 suspension |
| Respiratory or skin sensitization | : | Not classified<br>Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : | Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified<br>Based on available data, the classification criteria are not met |
| Reproductive toxicity | : | Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (repeated exposure) | : | Not classified<br>Based on available data, the classification criteria are not met |
| Aspiration hazard | : | Not classified<br>Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : | Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/injuries after inhalation | : | Inhalation of dust may cause irritation of the respiratory system. |
| Symptoms/injuries after skin contact | : | Dust from this product may cause skin irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/injuries after eye contact | : | Dust from this product may cause eyes irritation. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| **Feather-Dri** | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Feather-Dri | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated for transport

**TDG**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| Silane, dichlorodimethyl-, reaction products with silica (68611-44-9) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

### 15.2. International regulations

**CANADA**

| Silane, dichlorodimethyl-, reaction products with silica (68611-44-9) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations**

No additional information available

**National regulations**

| Silane, dichlorodimethyl-, reaction products with silica (68611-44-9) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on Turkish inventory of chemical |

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Other information : None.

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Ferr-L-Tite

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 06 June 2016 Revision date: 18 January 2019 Supersedes: 06 June 2019 Version: 4.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Ferr-L-Tite

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Gluing inserts in carbon, cedar, aluminum and fiberglass arrow shafts

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

### 2.2. Label elements

**GHS-US labelling**

No labelling applicable

### 2.3. Other hazards

other hazards which do not result in classification : Risk of thermal burns on contact with molten product.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Caution! Hot molten mass. After contact with molten product, cool skin area rapidly with cold water.

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. After contact with molten product, cool skin area rapidly with cold water. Burns caused by molten material must be treated clinically.

First-aid measures after eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. Do not induce vomiting unless directed to do so by medical personnel.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. Risk of thermal burns on contact with molten product.

Symptoms/injuries after skin contact : Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact : Vapors from molten wax may cause irritation and tearing. Risk of thermal burns on contact with molten product.

Symptoms/injuries after ingestion : May cause severe gastric distress.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream. Do not use a solid stream of water on molten adhesive to avoid splattering and spreading of fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard : No direct explosion hazard.

Reactivity : No dangerous reactions known under normal conditions of use.

### 5.3. Advice for firefighters

Precautionary measures fire : Caution! Hot molten mass. Do not use a solid stream of water on molten adhesive to avoid splattering and spreading of fire.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Wear positive pressure air supplied respirator if required by safe entry procedures.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal as hazardous waste. . On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapor or spray.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation of the storage area.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect against direct sunlight.

| | | |
|---|---|---|
| Incompatible materials | : | Strong acids, bases. Strong oxidizers. |
| Heat and ignition sources | : | Remove all sources of ignition. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. |
| Personal protective equipment | : | Avoid all unnecessary exposure. The following pictograms represent the minimum requirements for personal protective equipment. Gloves. Protective clothing. Safety glasses. |

| | | |
|---|---|---|
| Hand protection | : | Wear protective gloves. |
| Eye protection | : | Chemical goggles or safety glasses. Face-shield. |
| Skin and body protection | : | Wear work clothes with long sleeves. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). |
| Respiratory protection | : | Wear appropriate mask. |
| Thermal hazard protection | : | Wear heat resistant boots and protective clothing when handling material at elevated temperatures. |
| Environmental exposure controls | : | Avoid release to the environment. |
| Other information | : | Do not eat, drink or smoke during use. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Color | : | amber |
| Odor | : | characteristic |
| Odor threshold | : | No data available |
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Solubility | : | Negligible in water.<br>Water: <0.1% |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive limits | : | No data available |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. And with (strong) oxidizers.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion; Inhalation; Skin and eyes contact |
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified |
| Serious eye damage/irritation | : | Not classified |
| Respiratory or skin sensitization | : | Not classified |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| Specific target organ toxicity (single exposure) | : | Not classified |
| Specific target organ toxicity (repeated exposure) | : | Not classified |
| Aspiration hazard | : | Not classified |
| Symptoms/injuries after skin contact | : | Risk of thermal burns on contact with molten product. |
| Symptoms/injuries after eye contact | : | Vapors from molten wax may cause irritation and tearing. Risk of thermal burns on contact with molten product. |
| Symptoms/injuries after ingestion | : | May cause severe gastric distress. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Ferr-L-Tite | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Ferr-L-Tite | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

| | | |
|---|---|---|
| Additional information | : | This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method. |
| Ecology - waste materials | : | Avoid release to the environment. |

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**TDG**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

**CANADA**

No additional information available

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

| | | |
|---|---|---|
| Revision date | : | 06 June 2016 |
| Other information | : | None. |

Indication of changes:

| | | | |
|---|---|---|---|
| 3 | Composition/information on ingredients | Modified | |

SDS US (GHS HazCom 2012) - Red Gray 160531

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Ferr-L-Tite Cool Flex

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 07 June 2016 Revision date: 18 January 2019 Supersedes: 07 June 2016 Version: 4.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Ferr-L-Tite Cool Flex

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Gluing inserts in carbon, cedar, aluminum and fiberglass arrow shafts

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

### 2.2. Label elements

**GHS-US labelling**

No labelling applicable

### 2.3. Other hazards

other hazards which do not result in classification : Hot molten material can cause irreversible eye injury and burns. Contact with SOLID material may cause irritation with temporary redness with stinging and tears. Inhalation of hot mist may cause respiratory irritation. Molten material will produce burns to the gastrointestinal tract.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Caution! Hot molten mass. After contact with molten product, cool skin area rapidly with cold water.

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. After contact with molten product, cool skin area rapidly with cold water. Burns caused by molten material must be treated clinically. If burned by hot material, cool skin by quenching with large amounts of cool water. Do not use force or solvents to remove product incrustations from affected skin areas.

First-aid measures after eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. Do not induce vomiting unless directed to do so by medical personnel.

### 4.2. Most important symptoms and effects, both acute and delayed

| | | |
|---|---|---|
| Symptoms/injuries | : | Not expected to present a significant hazard under anticipated conditions of normal use. Risk of thermal burns on contact with molten product. |
| Symptoms/injuries after skin contact | : | Risk of thermal burns on contact with molten product. |
| Symptoms/injuries after eye contact | : | Vapors from molten wax may cause irritation and tearing. Risk of thermal burns on contact with molten product. |
| Symptoms/injuries after ingestion | : | May cause severe gastric distress. Ingestion may cause nausea, vomiting and diarrhea. |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | | |
|---|---|---|
| Suitable extinguishing media | : | Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : | Do not use a heavy water stream. Do not use a solid stream of water on molten adhesive to avoid splattering and spreading of fire. |

### 5.2. Special hazards arising from the substance or mixture

| | | |
|---|---|---|
| Fire hazard | : | Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. |
| Explosion hazard | : | No direct explosion hazard. |
| Reactivity | : | No dangerous reactions known under normal conditions of use. |

### 5.3. Advice for firefighters

| | | |
|---|---|---|
| Precautionary measures fire | : | Caution! Hot molten mass. Do not use a solid stream of water on molten adhesive to avoid splattering and spreading of fire. |
| Firefighting instructions | : | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment. |
| Protective equipment for firefighters | : | Do not enter fire area without proper protective equipment, including respiratory protection. Wear positive pressure air supplied respirator if required by safe entry procedures. |
| Other information | : | Hazardous decomposition products. On heating/burning: release of harmful gases/vapors e.g.: carbon monoxide - carbon dioxide. Acetic acid. Vinyl acetate. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

| | | |
|---|---|---|
| General measures | : | Material spilled on hard surface can present a serious slipping/falling hazard. Ensure adequate ventilation. |

#### 6.1.1. For non-emergency personnel

| | | |
|---|---|---|
| Emergency procedures | : | Evacuate unnecessary personnel. |

#### 6.1.2. For emergency responders

| | | |
|---|---|---|
| Protective equipment | : | Equip cleanup crew with proper protection. |
| Emergency procedures | : | Ventilate area. |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

| | | |
|---|---|---|
| Methods for cleaning up | : | Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal as hazardous waste. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Keep upwind of the spilled material and isolate exposure. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations. Dispose of waste according to applicable legislation. |

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Precautions for safe handling | : | Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapor or spray. Keep out of reach of children. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Technical measures | : | Ensure adequate ventilation of the storage area. A washing facility/water for eye and skin cleaning purposes should be present. Emergency shower installed. |
| Storage conditions | : | Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect against direct sunlight. Keep out of reach of children. |
| Incompatible materials | : | Strong acids, bases. Oxidizing agents. Reducing agents. |
| Heat and ignition sources | : | Remove all sources of ignition. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. |
| Personal protective equipment | : | Avoid all unnecessary exposure. The following pictograms represent the minimum requirements for personal protective equipment. Gloves. Protective clothing. Safety glasses. |

| | | |
|---|---|---|
| Hand protection | : | Wear protective gloves. |
| Eye protection | : | Chemical goggles or safety glasses. Face-shield. |
| Skin and body protection | : | Wear work clothes with long sleeves. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). |
| Respiratory protection | : | Wear appropriate mask. |
| Thermal hazard protection | : | Wear heat resistant boots and protective clothing when handling material at elevated temperatures. |
| Environmental exposure controls | : | Avoid release to the environment. |
| Other information | : | Do not eat, drink or smoke during use. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Color | : | Opaque Blue |
| Odor | : | Characteristic Negligible. |
| Odor threshold | : | No data available |
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Solubility | : | No data available |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive limits | : | No data available |
| Explosive properties | : | No data available |

Oxidizing properties : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. And with (strong) oxidizers. Reducing agent.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eyes contact

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact : Vapors from molten wax may cause irritation and tearing. Risk of thermal burns on contact with molten product.

Symptoms/injuries after ingestion : May cause severe gastric distress. Ingestion may cause nausea, vomiting and diarrhea.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Ferr-L-Tite Cool Flex | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Ferr-L-Tite Cool Flex | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Additional information : This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**TDG**

Not regulated

**Transport by sea**

Not regulated

**Air transport**

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

**CANADA**

No additional information available

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

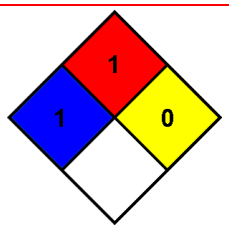
Revision date : 07 June 2016

Other information : None.

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.




HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

| | | | |
|---|---|---|---|
| 3 | Composition/information on ingredients | Modified | |

SDS US (GHS HazCom 2012) - Red Gray 160531

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Fletch-Fuse

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 22 November 2016 Version: 1.0 Revised: 18 January 2019

## SECTION 1: Identification

### 1.1. Product identifier

Product form : Substance

Trade name : Fletch-Fuse

### 1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Arrow Fletching Adhesive

### 1.3. Supplier

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

**Classification (GHS-CA)**

| | |
|---|---|
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2A | H319 |
| Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation | H335 |

Full text of H statements: see section 16

### 2.2. GHS Label elements, including precautionary statements

**GHS-CA labelling**

Hazard pictograms (GHS-CA) :

GHS07

Signal word (GHS-CA) : Warning

Hazard statements (GHS-CA) : H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-CA) : P261 - Avoid breathing fume, mist, spray, vapours
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of water
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a doctor, a POISON CENTER if you feel unwell
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-CA)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : Fletch-Fuse

| Name | Product identifier | % |
|---|---|---|
| Ethyl cyanoacrylate | (CAS No) 7085-85-0 | 90 - 100 |

Full text of hazard classes and H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/ attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause stomach pain or discomfort.

### 4.3. Immediate medical attention and special treatment, if necessary

Note to physician : : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.3. Specific hazards arising from the hazardous product

Fire hazard : Combustible liquid. Combustion may produce irritating fumes and nitrogen oxides.

Explosion hazard : May form flammable/explosive vapour-air mixture. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

Reactivity : None under normal conditions.

### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Avoid breathing fume, mist, spray, vapours. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs.

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **Ethyl cyanoacrylate (7085-85-0)** | | |
|---|---|---|
| Alberta | OEL TWA (mg/m³) | 1 mg/m³ |
| Alberta | OEL TWA (ppm) | 0.2 ppm |
| British Columbia | OEL TWA (ppm) | 0.2 ppm |
| Manitoba | OEL TWA (ppm) | 0.2 ppm |
| New Foundland & Labrador | OEL TWA (ppm) | 0.2 ppm |
| Nova Scotia | OEL TWA (ppm) | 0.2 ppm |
| Nunavut | OEL STEL (ppm) | 0.6 ppm |
| Nunavut | OEL TWA (ppm) | 0.2 ppm |
| Northwest Territories | OEL STEL (ppm) | 0.6 ppm |
| Northwest Territories | OEL TWA (ppm) | 0.2 ppm |
| Ontario | OEL TWA (ppm) | 0.2 ppm |
| Prince Edward Island | OEL TWA (ppm) | 0.2 ppm |
| Saskatchewan | OEL STEL (ppm) | 0.6 ppm |
| Saskatchewan | OEL TWA (ppm) | 0.2 ppm |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

Hand protection : Impermeable protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Long sleeved protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use a properly fitted, air-purifying or air-fed respirator if necessary.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : No data available

Colour : Clear

Odour : Characteristic

Odour threshold : No data available

pH : No data available

pH solution : No data available

| | | |
|---|---|---|
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Relative evaporation rate (ether=1) | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | 150 °C |
| Flash point | : | 87 °C |
| Auto-ignition temperature | : | The product is not self-igniting. |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Combustible liquid |
| Vapour pressure | : | No data available |
| Vapour pressure at 50 °C | : | No data available |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Relative density of saturated gas/air mixture | : | No data available |
| Density | : | 1.05 g/m³ |
| Relative gas density | : | No data available |
| Solubility | : | No data available |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | 1.850 mPa.s |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

| | | |
|---|---|---|
| Reactivity | : | None under normal conditions. |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | Hazardous polymerization will not occur. |
| Conditions to avoid | : | Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. |
| Incompatible materials | : | oxidizing agents. |
| Hazardous decomposition products | : | Combustion may produce irritating fumes and nitrogen oxides. |

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion. Inhalation. Skin and Eye contact. |
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |
| Skin corrosion/irritation | : | Causes skin irritation. |
| Serious eye damage/irritation | : | Causes serious eye irritation. |
| Respiratory or skin sensitization | : | Not classified |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| STOT-single exposure | : | May cause respiratory irritation. |
| STOT-repeated exposure | : | Not classified |
| Aspiration hazard | : | Not classified |

| **Fletch-Fuse** | |
|---|---|
| Viscosity, kinematic (calculated value) (40 °C) | 1.850 mPa.s |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.2. Persistence and degradability

| Fletch-Fuse | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Fletch-Fuse | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste disposal recommendations : Dispose of contents/container to comply with applicable local, national and international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### 14.1. Basic shipping description

In accordance with TDG

**TDG**

Not regulated for transport

### 14.2. Transport information/DOT

**DOT**

Not regulated for transport

### 14.3. Air and sea transport

**IMDG**

Not regulated for transport

**IATA**

Not regulated for transport

## SECTION 15: Regulatory information

### 15.1. National regulations

| Ethyl cyanoacrylate (7085-85-0) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

### 15.2. International regulations

| Ethyl cyanoacrylate (7085-85-0) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on INSQ (Mexican National Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical |

## SECTION 16: Other information

Date of issue : 22 November 2016

| | | |
|---|---|---|
| Sources of Key data | : | According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830. |
| Indication of changes | : | None. |
| Other information | : | None. |

Full text of H-statements:

| | |
|---|---|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

SDS Canada (GHS)

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# Fletch-Lac and Lure-Lac Fluorescent Paint

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Fletch-Lac and Lure-Lac Fluorescent Paint

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Paint

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:
Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

| | |
|---|---|
| Flam. Liq. 3 | H226 - Flammable liquid and vapor |
| Acute Tox. 4 (Inhalation: dust, mist) | H332 - Harmful if inhaled |
| Eye Irrit. 2A | H319 - Causes serious eye irritation |
| STOT SE 3 | H335 - May cause respiratory irritation |

Full text of H-statements: see section 16

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS02 GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) :
H226 - Flammable liquid and vapor
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing gas, mist, spray, vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER, a doctor if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international

regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| 4-methylpentan-2-one, isobutyl methyl ketone | (CAS No) 108-10-1 | 30 - 40 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation: vapor), H332<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice (show the label where possible).

First-aid measures after skin contact : Immediately flush the contact area with plenty of water. Gently wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Obtain medical attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids away from eyes (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Harmful if inhaled. May cause respiratory irritation s. Inhalation may cause irritation, cough, and shortness of breath.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard : May form explosive peroxides. May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.

Reactivity : Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 5.3. Advice for firefighters

Firefighting instructions : Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapor and spray mist. Avoid contact with skin, eyes and clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not absorb in saw-dust or other combustible absorbents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Scoop solid spill into closing containers. Store away from other materials. Use only non-sparking tools. Take precautionary measures against static discharge.

Other information : Consult the appropriate local waste disposal expert about waste disposal. Ensure all national/local regulations are observed.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Do not breathe gas, fumes, vapor or spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use spark-/explosion-proof appliances and lighting system.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Keep away from heat. Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Strong oxidizers. Acids. Bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | ACGIH STEL (ppm) | 75 ppm |
| ACGIH | Remark (ACGIH) | URT irr; dizziness; headache |
| OSHA | OSHA PEL (TWA) (mg/m³) | 410 mg/m³ |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | | |
|---|---|---|
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Use personal protective equipment as required.

Hand protection : Wear protective gloves. Use neoprene or rubber gloves. Impermeable protective nitrile gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Long sleeved protective clothing. Rubber apron, boots.

Respiratory protection : An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Use a properly fitted, air-purifying or air-fed respirator if necessary.

Environmental exposure controls : Avoid discharge to the environment.

Other information : Do not eat, drink or smoke during use. Remove contaminated clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Colored

Odor : sweet odor

Odor threshold : No data available

pH : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 101.1 °C (214 °F)

Flash point : < 32.8 °C (<91 °F)

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : 1 - 8 vol %

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : 2 mm Hg

Relative density : No data available

Relative vapor density at 20 °C : No data available

Density : > 1

Solubility : Water: Slightly soluble

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 10.2. Chemical stability

Stable under recommended storage conditions. Unstable on exposure to heat. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

May form explosive peroxides. May release flammable gases. Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact

Acute toxicity : Inhalation: dust, mist: Harmful if inhaled.

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| LD50 oral rat | 2080 mg/kg |
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 inhalation rat (mg/l) | 8.2 mg/l/4h |

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : Harmful if inhaled. May cause respiratory irritation. Inhalation may cause irritation, cough, and shortness of breath.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. Allow volatiles to evaporate. Dispose of solid residue according to applicable regulations. Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws. Ensure all national/local regulations are observed.

Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base), 3, III

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint

including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid


Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : B1
B52
IB3
T2
TP1
TP29

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A

Other information : No supplementary information available.

### TDG

Transport document description : UN1263 PAINT (PAINT), 3, III

UN-No. (TDG) : UN1263

TDG Proper Shipping Name : PAINT

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : III - Minor Danger

TDG Special Provisions : 59
83

Explosive Limit and Limited Quantity Index : 5

Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 60

### Transport by sea

| | | |
|---|---|---|
| UN-No. (IMDG) | : | 1263 |
| Proper Shipping Name (IMDG) | : | PAINT |
| Class (IMDG) | : | 3 - Flammable liquids |
| Packing group (IMDG) | : | III - substances presenting low danger |
| MFAG-No | : | 127;128 |

### Air transport

| | | |
|---|---|---|
| UN-No. (IATA) | : | 1263 |
| Proper Shipping Name (IATA) | : | Paint |
| Class (IATA) | : | 3 - Flammable Liquids |
| Packing group (IATA) | : | III - Minor Danger |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

**CANADA**

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

| | | |
|---|---|---|
| Indication of changes | : | None. |
| Sources of Key data | : | Data arise from reference works and literature. |
| Other information | : | None. |

Full text of H-statements:

| | |
|---|---|
| Acute Tox. 4 (Inhalation: dust, mist) | Acute toxicity (inhalation: dust, mist) Category 4 |
| Acute Tox. 4 (Inhalation: vapor) | Acute toxicity (inhalation: vapor) Category 4 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Fletch-Lac and Lure-Lac Gloss

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Fletch-Lac and Lure-Lac Gloss

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Paint

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:
Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

| | |
|---|---|
| Flam. Liq. 2 | H225 - Highly flammable liquid and vapor |
| Acute Tox. 4 (Inhalation: dust, mist) | H332 - Harmful if inhaled |
| Eye Irrit. 2A | H319 - Causes serious eye irritation |
| STOT SE 3 | H336 - May cause drowsiness or dizziness |
| STOT SE 3 | H335 - May cause respiratory irritation |

Full text of H-statements: see section 16

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS02 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :
H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) :
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing gas, mist, spray, vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER, a doctor if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Methyl ethyl ketone | (CAS No) 78-93-3 | 20 - 40 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| Diisobutyl ketone | (CAS No) 108-83-8 | 25 - 35 | Flam. Liq. 3, H226<br>STOT SE 3, H335 |
| 4-methylpentan-2-one, isobutyl methyl ketone | (CAS No) 108-10-1 | 5 - 15 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation: vapor), H332<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice (show the label where possible).

First-aid measures after skin contact : Immediately flush the contact area with plenty of water. Gently wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Obtain medical attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids away from eyes (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Inhalation may cause irritation, cough, and shortness of breath.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard : May form explosive peroxides. May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.

Reactivity : Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 5.3. Advice for firefighters

| | | |
|---|---|---|
| Firefighting instructions | : | Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area. |
| Protective equipment for firefighters | : | Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : | Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Will float and can be reignited on water surface. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

| | | |
|---|---|---|
| General measures | : | Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapor and spray mist. Avoid contact with skin, eyes and clothing. |

#### 6.1.1. For non-emergency personnel

| | | |
|---|---|---|
| Emergency procedures | : | Evacuate unnecessary personnel. |

#### 6.1.2. For emergency responders

| | | |
|---|---|---|
| Protective equipment | : | Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray. |
| Emergency procedures | : | Ventilate area. |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Floats on water. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

| | | |
|---|---|---|
| Methods for cleaning up | : | Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not absorb in saw-dust or other combustible absorbents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Scoop solid spill into closing containers. Store away from other materials. Use only non-sparking tools. Take precautionary measures against static discharge. |
| Other information | : | Consult the appropriate local waste disposal expert about waste disposal. Ensure all national/local regulations are observed. |

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Additional hazards when processed | : | Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion. |
| Precautions for safe handling | : | Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Do not breathe gas, fumes, vapor or spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |
| Hygiene measures | : | Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Technical measures | : | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use spark-/explosion-proof appliances and lighting system. |
| Storage conditions | : | Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Keep away from heat. Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible materials | : | Strong oxidizers. Acids. Bases. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Diisobutyl ketone (108-83-8) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 25 ppm |
| ACGIH | Remark (ACGIH) | URT & eye irr |
| OSHA | OSHA PEL (TWA) (mg/m³) | 290 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 50 ppm |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | ACGIH STEL (ppm) | 75 ppm |
| ACGIH | Remark (ACGIH) | URT irr; dizziness; headache |
| OSHA | OSHA PEL (TWA) (mg/m³) | 410 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

| Methyl ethyl ketone (78-93-3) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 200 ppm |
| ACGIH | ACGIH STEL (ppm) | 300 ppm |
| ACGIH | Remark (ACGIH) | URT irr; CNS & PNS impair |
| OSHA | OSHA PEL (TWA) (mg/m³) | 590 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Use personal protective equipment as required.

Hand protection : Wear protective gloves. Use neoprene or rubber gloves. Impermeable protective nitrile gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Long sleeved protective clothing. Rubber apron, boots.

Respiratory protection : An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Use a properly fitted, air-purifying or air-fed respirator if necessary.

Environmental exposure controls : Avoid discharge to the environment.

Other information : Do not eat, drink or smoke during use. Remove contaminated clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Thick liquid.

Color : Colorless

Odor : sweet odor

Odor threshold : No data available

pH : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 37.8 °C (100 °F)

| | | |
|---|---|---|
| Flash point | : | < 18.3 °C (<65 °F) |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Explosive limits | : | 1 - 7 vol % |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Vapor pressure | : | 4 mm Hg |
| Relative density | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Density | : | 0.9 |
| Solubility | : | Water: Slightly soluble |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 10.2. Chemical stability

Stable under recommended storage conditions. Unstable on exposure to heat. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

May form explosive peroxides. May release flammable gases. Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact

Acute toxicity : Inhalation: dust, mist: Harmful if inhaled.

| **Diisobutyl ketone (108-83-8)** | |
|---|---|
| LD50 oral rat | 5750 mg/kg |
| LC50 inhalation rat (ppm) | > 2300 ppm/4h |

| **4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)** | |
|---|---|
| LD50 oral rat | 2080 mg/kg |
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 inhalation rat (mg/l) | 8.2 mg/l/4h |

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| LD50 oral rat | 2483 mg/kg |
| LD50 dermal rabbit | 5000 mg/kg |
| LC50 inhalation rat (ppm) | 11700 ppm/4h |

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
(Based on available data, the classification criteria are not met)

| | | |
|---|---|---|
| Germ cell mutagenicity | : | Not classified<br>(Based on available data, the classification criteria are not met) |
| Carcinogenicity | : | Not classified<br>(Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : | Not classified<br>(Based on available data, the classification criteria are not met) |
| Specific target organ toxicity (single exposure) | : | May cause drowsiness or dizziness. May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : | Not classified<br>(Based on available data, the classification criteria are not met) |
| Aspiration hazard | : | Not classified<br>(Based on available data, the classification criteria are not met) |
| Symptoms/injuries after inhalation | : | Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Inhalation may cause irritation, cough, and shortness of breath. |
| Symptoms/injuries after skin contact | : | Repeated exposure may cause skin dryness or cracking. |
| Symptoms/injuries after eye contact | : | Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : | May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Diisobutyl ketone (108-83-8) | |
|---|---|
| LC50 fish 1 | 140 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| LC50 fish 1 | 3130 - 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | > 520 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Daphnia 2 | 5091 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| Log Pow | 0.29 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

| | | |
|---|---|---|
| Effect on the global warming | : | No additional information available |
| Other information | : | Avoid release to the environment. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

| | | |
|---|---|---|
| Waste disposal recommendations | : | Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. Allow volatiles to evaporate. Dispose of solid residue according to applicable regulations. Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws. Ensure all national/local regulations are observed. |
| Additional information | : | Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion. |
| Ecology - waste materials | : | Avoid release to the environment. |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

| | | |
|---|---|---|
| Transport document description | : | UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base), 3, II |
| UN-No.(DOT) | : | UN1263 |

| | | |
|---|---|---|
| Proper Shipping Name (DOT) | : | Paint<br>including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base |
| Transport hazard class(es) (DOT) | : | 3 - Class 3 - Flammable liquid 49 CFR 173.120 |
| Hazard labels (DOT) | : | 3 - Flammable liquid |


| | | |
|---|---|---|
| Packing group (DOT) | : | II - Medium Danger |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : | 173 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : | 242 |
| DOT Special Provisions (49 CFR 172.102) | : | 149<br>B52<br>IB2<br>T4<br>TP1<br>TP8<br>TP28 |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : | 150 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : | 5 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : | 60 L |
| DOT Vessel Stowage Location | : | B |
| Other information | : | No supplementary information available. |

### TDG

| | | |
|---|---|---|
| Transport document description | : | UN1263 PAINT (PAINT), 3, II |
| UN-No. (TDG) | : | UN1263 |
| TDG Proper Shipping Name | : | PAINT |
| TDG Primary Hazard Classes | : | 3 - Class 3 - Flammable Liquids |
| Packing group | : | II - Medium Danger |
| TDG Special Provisions | : | 59<br>83 |
| Explosive Limit and Limited Quantity Index | : | 5 |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : | 5 |

### Transport by sea

| | | |
|---|---|---|
| UN-No. (IMDG) | : | 1263 |
| Proper Shipping Name (IMDG) | : | PAINT |
| Class (IMDG) | : | 3 - Flammable liquids |
| Packing group (IMDG) | : | II - substances presenting medium danger |
| MFAG-No | : | 127;128 |

### Air transport

| | | |
|---|---|---|
| UN-No. (IATA) | : | 1263 |
| Proper Shipping Name (IATA) | : | Paint |
| Class (IATA) | : | 3 - Flammable Liquids |
| Packing group (IATA) | : | II - Medium Danger |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| **Diisobutyl ketone (108-83-8)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

**CANADA**

| Diisobutyl ketone (108-83-8) | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 3 - Combustible Liquid |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

**EU-Regulations**

No additional information available

**National regulations**

| Diisobutyl ketone (108-83-8) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Japanese ISHL (Industrial Safety and Health Law)<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on the Canadian IDL (Ingredient Disclosure List)<br>Listed on INSQ (Mexican national Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical |

| Methyl ethyl ketone (78-93-3) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Japanese Poisonous and Deleterious Substances Control Law<br>Listed on the Canadian IDL (Ingredient Disclosure List)<br>Listed on INSQ (Mexican national Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical |

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Indication of changes : None.

Sources of Key data : Data arise from reference works and literature.

Other information : None.

Full text of H-statements:

| | |
|---|---|
| Acute Tox. 4 (Inhalation: dust, mist) | Acute toxicity (inhalation: dust, mist) Category 4 |
| Acute Tox. 4 () | Acute toxicity (inhalation: vapor) Category 4 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Fletch-Lac and Lure-Lac Metallics

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Fletch-Lac and Lure-Lac Metallics

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Paint

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:
Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

| | |
|---|---|
| Flam. Liq. 2 | H225 - Highly flammable liquid and vapor |
| Acute Tox. 4 (Inhalation: dust, mist) | H332 - Harmful if inhaled |
| Eye Irrit. 2A | H319 - Causes serious eye irritation |
| STOT SE 3 | H335 - May cause respiratory irritation |

Full text of H-statements: see section 16

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS02 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :
H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing gas, mist, spray, vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER, a doctor if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international

regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| 4-methylpentan-2-one, isobutyl methyl ketone | (CAS No) 108-10-1 | 40 - 50 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation: vapor), H332<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice (show the label where possible).

First-aid measures after skin contact : Immediately flush the contact area with plenty of water. Gently wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Obtain medical attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids away from eyes (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Harmful if inhaled. May cause respiratory irritation. Inhalation may cause irritation, cough, and shortness of breath.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard : May form explosive peroxides. May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.

Reactivity : Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 5.3. Advice for firefighters

Firefighting instructions : Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Will float and can be reignited on water surface. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapor and spray mist. Avoid contact with skin, eyes and clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Floats on water. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not absorb in saw-dust or other combustible absorbents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Scoop solid spill into closing containers. Store away from other materials. Use only non-sparking tools. Take precautionary measures against static discharge.

Other information : Consult the appropriate local waste disposal expert about waste disposal. Ensure all national/local regulations are observed.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Do not breathe gas, fumes, vapor or spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use spark-/explosion-proof appliances and lighting system.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Keep away from heat. Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Strong oxidizers. Acids. Bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)** | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | ACGIH STEL (ppm) | 75 ppm |
| ACGIH | Remark (ACGIH) | URT irr; dizziness; headache |
| OSHA | OSHA PEL (TWA) (mg/m³) | 410 mg/m³ |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | | |
|---|---|---|
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Use personal protective equipment as required.

Hand protection : Wear protective gloves. Use neoprene or rubber gloves. Impermeable protective nitrile gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Long sleeved protective clothing. Rubber apron, boots.

Respiratory protection : An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Use a properly fitted, air-purifying or air-fed respirator if necessary.

Environmental exposure controls : Avoid discharge to the environment.

Other information : Do not eat, drink or smoke during use. Remove contaminated clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Thick liquid.

Color : Colored

Odor : sweet odor

Odor threshold : No data available

pH : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 37.8 °C (100 °F)

Flash point : < -1.1 °C (<30 °F)

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : 1 - 7 vol %

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : 4 mm Hg

Relative density : No data available

Relative vapor density at 20 °C : No data available

Density : 0.9

Solubility : Water: Slightly soluble

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 10.2. Chemical stability

Stable under recommended storage conditions. Unstable on exposure to heat. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

May form explosive peroxides. May release flammable gases. Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact

Acute toxicity : Inhalation: dust, mist: Harmful if inhaled.

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| LD50 oral rat | 2080 mg/kg |
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 inhalation rat (mg/l) | 8.2 mg/l/4h |

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : Harmful if inhaled. May cause respiratory irritation. Inhalation may cause irritation, cough, and shortness of breath.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. Allow volatiles to evaporate. Dispose of solid residue according to applicable regulations. Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws. Ensure all national/local regulations are observed.

Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base), 3, II

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint

including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid


Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 149
B52
IB2
T4
TP1
TP8
TP28

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B

Other information : No supplementary information available.

**TDG**

Transport document description : UN1263 PAINT (PAINT), 3, II

UN-No. (TDG) : UN1263

TDG Proper Shipping Name : PAINT

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : II - Medium Danger

TDG Special Provisions : 59
83

Explosive Limit and Limited Quantity Index : 5

Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5

### Transport by sea

UN-No. (IMDG) : 1263
Proper Shipping Name (IMDG) : PAINT
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : II - substances presenting medium danger
MFAG-No : 127;128

### Air transport

UN-No. (IATA) : 1263
Proper Shipping Name (IATA) : Paint
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

#### CANADA

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Indication of changes : None.
Sources of Key data : Data arise from reference works and literature.
Other information : None.

Full text of H-statements:

| | |
|---|---|
| Acute Tox. 4 (Inhalation: dust, mist) | Acute toxicity (inhalation: dust, mist) Category 4 |
| Acute Tox. 4 () | Acute toxicity (inhalation: vapor) Category 4 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Fletch-Lac Clear and Blue Clear

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Fletch-Lac Clear and Blue Clear

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Paint

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:
Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Flam. Liq. 2 H225 - Highly flammable liquid and vapor
Eye Irrit. 2A H319 - Causes serious eye irritation
STOT SE 3 H336 - May cause drowsiness or dizziness

Full text of H-statements: see section 16

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS02 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing gas, mist, spray, vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER, a doctor if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Acetone | (CAS No) 67-64-1 | 40 - 50 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Immediately flush the contact area with plenty of water. Gently wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Obtain medical attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids away from eyes (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.

Reactivity : Stable under use and storage conditions as recommended in section 7.

### 5.3. Advice for firefighters

Firefighting instructions : Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Will float and can be reignited on water surface. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapor and spray mist. Avoid contact with skin, eyes and clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Floats on water. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not absorb in saw-dust or other combustible absorbents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Scoop solid spill into closing containers. Store away from other materials. Use only non-sparking tools. Take precautionary measures against static discharge.

Other information : Consult the appropriate local waste disposal expert about waste disposal. Ensure all national/local regulations are observed.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Do not breathe gas, fumes, vapor or spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use spark-/explosion-proof appliances and lighting system.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Keep away from heat. Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Strong oxidizers. Acids. Bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **Acetone (67-64-1)** | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 250 ppm |
| ACGIH | ACGIH STEL (ppm) | 500 ppm |
| ACGIH | Remark (ACGIH) | eye irr; CNS impair; BEI |
| OSHA | OSHA PEL (TWA) (mg/m³) | 2400 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |

### 8.2. Exposure controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. |
| Personal protective equipment | : | Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Use personal protective equipment as required. |

| | | |
|---|---|---|
| Hand protection | : | Wear protective gloves. Use neoprene or rubber gloves. Impermeable protective nitrile gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. |
| Eye protection | : | Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. |
| Skin and body protection | : | Long sleeved protective clothing. Rubber apron, boots. |
| Respiratory protection | : | An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Use a properly fitted, air-purifying or air-fed respirator if necessary. |
| Environmental exposure controls | : | Avoid discharge to the environment. |
| Other information | : | Do not eat, drink or smoke during use. Remove contaminated clothing. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Colorless |
| Odor | : | sweet odor banana-like |
| Odor threshold | : | No data available |
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | 37.8 °C (100 °F) |
| Flash point | : | < -1.1 °C (<30°F) |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Explosive limits | : | 1 - 7 vol % |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Vapor pressure | : | 4 mm Hg |
| Relative density | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Density | : | 0.9 |
| Solubility | : | Water: Slightly soluble |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under use and storage conditions as recommended in section 7.

### 10.2. Chemical stability

Stable under recommended storage conditions. Unstable on exposure to heat. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Extremely high or low temperatures. Open flame. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

May release flammable gases. Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact

Acute toxicity : Not classified

| Acetone (67-64-1) | |
|---|---|
| LD50 oral rat | 5800 mg/kg |
| LC50 inhalation rat (mg/l) | 50100 mg/m³ (Exposure time: 8 h) |

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Acetone (67-64-1) | |
|---|---|
| LC50 fish 1 | 4.74 - 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia 1 | 10294 - 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 fish 2 | 6210 - 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 12600 - 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Acetone (67-64-1) | |
|---|---|
| BCF fish 1 | 0.69 |
| Log Pow | -0.24 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. Allow volatiles to evaporate. Dispose of solid residue according to applicable regulations. Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws. Ensure all national/local regulations are observed.

Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base), 3, II

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint

including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid


Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 149
B52
IB2
T4
TP1
TP8
TP28

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B

Other information : No supplementary information available.

### TDG

Transport document description : UN1263 PAINT (PAINT), 3, II

UN-No. (TDG) : UN1263

TDG Proper Shipping Name : PAINT

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : II - Medium Danger

TDG Special Provisions : 59
83

| | | |
|---|---|---|
| Explosive Limit and Limited Quantity Index | : | 5 |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : | 5 |

### Transport by sea

| | | |
|---|---|---|
| UN-No. (IMDG) | : | 1263 |
| Proper Shipping Name (IMDG) | : | PAINT |
| Class (IMDG) | : | 3 - Flammable liquids |
| Packing group (IMDG) | : | II - substances presenting medium danger |
| MFAG-No | : | 127;128 |

### Air transport

| | | |
|---|---|---|
| UN-No. (IATA) | : | 1263 |
| Proper Shipping Name (IATA) | : | Paint |
| Class (IATA) | : | 3 - Flammable Liquids |
| Packing group (IATA) | : | II - Medium Danger |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| **Acetone (67-64-1)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

#### CANADA

| **Acetone (67-64-1)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

#### EU-Regulations

No additional information available

#### National regulations

| **Acetone (67-64-1)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances) |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) |
| Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory |
| Listed on the Korean ECL (Existing Chemicals List) |
| Listed on NZIoC (New Zealand Inventory of Chemicals) |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |
| Listed on the Canadian IDL (Ingredient Disclosure List) |
| Listed on INSQ (Mexican national Inventory of Chemical Substances) |
| Listed on Turkish inventory of chemical |

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

| | | |
|---|---|---|
| Indication of changes | : | None. |
| Sources of Key data | : | Data arise from reference works and literature. |
| Other information | : | None. |

Full text of H-statements:

| | |
|---|---|
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |

# Fletch-Lac and Lure-Lac Super Coat

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Fletch-Lac and Lure-Lac Super Coat

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Arrow cresting clear coating

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:
Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Flam. Liq. 2 H225 - Highly flammable liquid and vapor
Eye Irrit. 2A H319 - Causes serious eye irritation
STOT SE 3 H336 - May cause drowsiness or dizziness

Full text of H-statements: see section 16

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS02 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing gas, mist, spray, vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER, a doctor if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Methyl ethyl ketone | (CAS No) 78-93-3 | 25 - 35 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Immediately flush the contact area with plenty of water. Gently wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Obtain medical attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids away from eyes (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Explosion hazard : May form explosive peroxides. May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source.

Reactivity : Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 5.3. Advice for firefighters

Firefighting instructions : Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Will float and can be reignited on water surface. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapor and spray mist. Avoid contact with skin, eyes and clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Floats on water. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not absorb in saw-dust or other combustible absorbents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Scoop solid spill into closing containers. Store away from other materials. Use only non-sparking tools. Take precautionary measures against static discharge.

Other information : Consult the appropriate local waste disposal expert about waste disposal. Ensure all national/local regulations are observed.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Do not breathe gas, fumes, vapor or spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use spark-/explosion proof appliances and lighting system.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Keep away from heat. Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Strong oxidizers. Acids. Bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Methyl ethyl ketone (78-93-3) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 200 ppm |
| ACGIH | ACGIH STEL (ppm) | 300 ppm |
| ACGIH | Remark (ACGIH) | URT irr; CNS & PNS impair |
| OSHA | OSHA PEL (TWA) (mg/m³) | 590 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

### 8.2. Exposure controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. |
| Personal protective equipment | : | Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Use personal protective equipment as required. |

| | | |
|---|---|---|
| Hand protection | : | Wear protective gloves. Use neoprene or rubber gloves. Impermeable protective nitrile gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. |
| Eye protection | : | Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. |
| Skin and body protection | : | Long sleeved protective clothing. Rubber apron, boots. |
| Respiratory protection | : | An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Use a properly fitted, air-purifying or air-fed respirator if necessary. |
| Environmental exposure controls | : | Avoid discharge to the environment. |
| Other information | : | Do not eat, drink or smoke during use. Remove contaminated clothing. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Color | : | Colorless |
| Odor | : | sweet odor banana-like odor |
| Odor threshold | : | No data available |
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | 37.8 °C (100 °F) |
| Flash point | : | < -1.1 °C (<30 °F) |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Explosive limits | : | 1 - 7 vol % |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Vapor pressure | : | 4 mm Hg |
| Relative density | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Density | : | 0.9 |
| Solubility | : | Water: Slightly soluble |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 10.2. Chemical stability

Stable under recommended storage conditions. Unstable on exposure to heat. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

May form explosive peroxides. May release flammable gases. Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact

Acute toxicity : Not classified
(Based on available data, the classification criteria are not met)

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| LD50 oral rat | 2483 mg/kg |
| LD50 dermal rabbit | 5000 mg/kg |
| LC50 inhalation rat (ppm) | 11700 ppm/4h |

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| LC50 fish 1 | 3130 - 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | > 520 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Daphnia 2 | 5091 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| Log Pow | 0.29 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. Allow volatiles to evaporate. Dispose of solid residue according to applicable regulations. Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws. Ensure all national/local regulations are observed.

Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1263 Paint related material (including paint thinning, drying, removing, or reducing compound), 3, II

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint related material
including paint thinning, drying, removing, or reducing compound

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid


Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 173

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 149
B52
IB2
T4
TP1
TP8
TP28

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B

Other information : No supplementary information available.

### TDG

Transport document description : UN1263 PAINT RELATED MATERIAL (PAINT RELATED MATERIAL), 3, II

UN-No. (TDG) : UN1263

TDG Proper Shipping Name : PAINT RELATED MATERIAL

TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

Packing group : II - Medium Danger

TDG Special Provisions : 59
83

Explosive Limit and Limited Quantity Index : 5

Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5

### Transport by sea

UN-No. (IMDG) : 1263
Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : II - substances presenting medium danger
MFAG-No : 127;128

### Air transport

UN-No. (IATA) : 1263
Proper Shipping Name (IATA) : Paint related material
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

**CANADA**

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

**EU-Regulations**

No additional information available

**National regulations**

| **Methyl ethyl ketone (78-93-3)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Japanese Poisonous and Deleterious Substances Control Law<br>Listed on the Canadian IDL (Ingredient Disclosure List)<br>Listed on INSQ (Mexican national Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical |

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Indication of changes : None.
Sources of Key data : Data arise from reference works and literature.
Other information : None.

Full text of H-statements:

| | |
|---|---|
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Fletch-Tite Platinum

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : Fletch-Tite Platinum

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial

Professional use

Use of the substance/mixture : Arrow fletching adhesives

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Flam. Liq. 2 H225
Eye Irrit. 2A H319
Carc. 2 H351
STOT SE 3 H336

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS02 GHS07 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing fume, gas, mist, spray, vapours
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a POISON CENTER, a doctor if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use alcohol resistant foam, dry extinguishing powder, carbon dioxide (CO2) to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Methyl ethyl ketone | (CAS No) 78-93-3 | 25 - 50 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| Tetrahydrofuran | (CAS No) 109-99-9 | 10 - 20 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |
| 4-methylpentan-2-one, isobutyl methyl ketone | (CAS No) 108-10-1 | 2 - 10 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2A, H319<br>Carc. 2, H351<br>STOT SE 3, H335 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Immediately flush the contact area with plenty of water. Gently wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Obtain medical attention.

First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation. Eyelids may bond.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form explosive peroxides. May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

### 5.3. Advice for firefighters

Firefighting instructions : Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Will float and can be reignited on water surface. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray. On burning: release of carbon monoxide - carbon dioxide. Hydrogen chloride.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapour and spray mist. Avoid contact with skin, eyes and clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Floats on water. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not absorb in saw-dust or other combustible absorbents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Scoop solid spill into closing containers. Store away from other materials. Use only non-sparking tools. Take precautionary measures against static discharge.

Other information : Consult the appropriate local waste disposal expert about waste disposal. Ensure all national/local regulations are observed.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Do not breathe gas, fumes, vapour or spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use spark-/explosionproof appliances and lighting system.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Keep away from heat. Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Strong oxidizers. Acids. Bases.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **Methyl ethyl ketone (78-93-3)** | | |
|---|---|---|
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 300 ppm |

| Methyl ethyl ketone (78-93-3) | | |
|---|---|---|
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 590 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

| Tetrahydrofuran (109-99-9) | | |
|---|---|---|
| USA ACGIH | ACGIH TWA (ppm) | 50 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 100 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 590 mg/m³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Use personal protective equipment as required.

Hand protection : Wear protective gloves. Use neoprene or rubber gloves. Impermeable protective nitrile gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Long sleeved protective clothing. Rubber apron, boots.

Respiratory protection : An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits. Use a properly fitted, air-purifying or air-fed respirator if neceassary.

Environmental exposure controls : Avoid discharge to the environment.

Other information : Do not eat, drink or smoke during use. Remove contaminated clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Viscous.

Colour : Yellowish.

Odour : Strong.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 78.1 °C (172.5 °F)

Flash point : < 20 °C (<68 °F)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 120 - 140 mm Hg

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 0.8 (at 20 °C)

Solubility : Water: Slight

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : May form explosive peroxides.

Oxidising properties : No data available

Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under recommended storage conditions. Unstable on exposure to heat. Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

May form explosive peroxides. May release flammable gases. Fume. Carbon monoxide. Carbon dioxide. Hydrogen chloride (HCl).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| LD50 oral rat | 2483 mg/kg |
| LD50 dermal rabbit | 5000 mg/kg |
| LC50 inhalation rat (ppm) | 11700 ppm/4h |

| **Tetrahydrofuran (109-99-9)** | |
|---|---|
| LD50 oral rat | 1650 mg/kg |
| LC50 inhalation rat (ppm) | 21000 ppm (Exposure time: 3 h) |
| ATE CLP (oral) | 1650.000 mg/kg bodyweight |

| **4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)** | |
|---|---|
| LD50 oral rat | 2080 mg/kg |
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 inhalation rat (mg/l) | 8.2 mg/l/4h |
| ATE CLP (gases) | 4500.000 ppmv/4h |
| ATE CLP (vapours) | 11.000 mg/l/4h |
| ATE CLP (dust,mist) | 1.500 mg/l/4h |

Skin corrosion/irritation : Not classified. Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified. Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified. Based on available data, the classification criteria are not met

Carcinogenicity : Suspected of causing cancer.

| **Tetrahydrofuran (109-99-9)** | |
|---|---|
| National Toxicity Program (NTP) Status | 1 |

Reproductive toxicity : Not classified. Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified. Based on available data, the classification criteria are not met

Aspiration hazard : Not classified. Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation. Eyelids may bond.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| LC50 fishes 1 | 3130 - 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | > 520 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Daphnia 2 | 5091 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| Tetrahydrofuran (109-99-9) | |
|---|---|
| LC50 fishes 1 | 1970 - 2360 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2 | 2700 - 3600 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

### 12.2. Persistence and degradability

| Fletch-Tite Platinum | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Fletch-Tite Platinum | |
|---|---|
| Bioaccumulative potential | Not established. |

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| Log Pow | 0.29 |

| Tetrahydrofuran (109-99-9) | |
|---|---|
| BCF fish 1 | (will not bioconcentrate) |
| Log Pow | 0.45 (at 25 °C) |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. Allow volatiles to evaporate. Dispose of solid residue according to applicable regulations. Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws. Ensure all national/local regulations are observed.

Additional information : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No.(DOT) : 1133

DOT NA no. UN1133

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Adhesives
containing a flammable liquid

Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid


Packing group (DOT) : III - Low Danger
Classified as packing group III per 49 CFR 173.121(b) Criteria for inclusion of viscous Class 3 materials in Packing Group III and per IATA 3.3.3.1 Criteria for inclusion in Packing Group III.

| | | |
|---|---|---|
| DOT Special Provisions (49 CFR 172.102) | : | B1 If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C(100 F), then thebulk packaging requirements of 173.242 of this subchapter are applicable.<br>B52 Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.<br>IB3 *Authorized IBCs:* Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). *Additional Requirement:* Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized, except for UN2672 (also *see* Special Provision IP8 in Table 2 for UN2672).<br>T2 1.5 178.274(d)(2) Normal 178.275(d)(3)<br>TP1 TP1The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filing = 97/1+a(tr-tf) |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : | 150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : | 173 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : | 242 |

### 14.3. Additional information

Other information : No supplementary information available.

**Overland transport**

| | | |
|---|---|---|
| Packing group (ADR) | : | III |
| Class (ADR) | : | 3 - Flammable liquid |
| Hazard identification number (Kemler No.) | : | 33 |
| Classification code (ADR) | : | F1 |
| Danger labels (ADR) | : | 3 - Flammable liquids |


Orange plates :


| | | |
|---|---|---|
| Tunnel restriction code (ADR) | : | D/E |
| Excepted quantities (ADR) | : | E1 |

**Transport by sea**

| | | |
|---|---|---|
| DOT Vessel Stowage Location | : | A Stowage category ''A'' means the material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel. |
| MFAG-No | : | 127;128 |

**Air transport**

| | | |
|---|---|---|
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : | 60 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : | 220 L |
| Civil Aeronautics Law | : | Flammable liquids |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| **Fletch-Tite Platinum** | |
|---|---|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5882 lb |

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

| **Tetrahydrofuran (109-99-9)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |

| Tetrahydrofuran (109-99-9) | |
|---|---|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

**CANADA**

| Fletch-Tite Platinum | |
|---|---|
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| Tetrahydrofuran (109-99-9) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

**EU-Regulations**

| Methyl ethyl ketone (78-93-3) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

| Tetrahydrofuran (109-99-9) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flam. Liq. 2 H225
Eye Irrit. 2 H319
Carc. 2 H351
STOT SE 3 H336

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Carc.Cat.3; R40
F; R11
Xi; R36
R19
R66
R67

Full text of R-phrases: see section 16

#### 15.2.2. National regulations

| Methyl ethyl ketone (78-93-3) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Japanese Poisonous and Deleterious Substances Control Law<br>Listed on the Canadian IDL (Ingredient Disclosure List) |

| **Tetrahydrofuran (109-99-9)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances) |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) |
| Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory |
| Listed on the Korean ECL (Existing Chemicals List) |
| Listed on NZIoC (New Zealand Inventory of Chemicals) |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |
| Listed on the Canadian IDL (Ingredient Disclosure List) |

### 15.3. US State regulations

| **Methyl ethyl ketone (78-93-3)** |
|---|
| |
| U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute |
| U.S. - California - SCAQMD - Toxic Air Contaminants With Proposed Risk Values |
| U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) |
| U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues |
| U.S. - Colorado - Hazardous Wastes - Maximum Concentration for the Toxicity Characteristics |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) |
| U.S. - Connecticut - Volatile Substances |
| U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities |
| U.S. - Florida - Essential Chemicals List |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) |
| U.S. - Idaho - Occupational Exposure Limits - TWAs |
| U.S. - Illinois - Toxic Air Contaminants |
| U.S. - Louisiana - Reportable Quantity List for Pollutants |
| U.S. - Massachusetts - Allowable Ambient Limits (AALs) |
| U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs) |
| U.S. - Massachusetts - Drinking Water Guidelines |
| U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1 |
| U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2 |
| U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity |
| U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1 |
| U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 |
| U.S. - Massachusetts - Right To Know List |
| U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs) |
| U.S. - Massachusetts - Toxics Use Reduction Act |
| U.S. - Michigan - Occupational Exposure Limits - STELs |
| U.S. - Michigan - Occupational Exposure Limits - TWAs |
| U.S. - Michigan - Polluting Materials List |
| U.S. - Minnesota - Groundwater Health Risk Limits |
| U.S. - Minnesota - Hazardous Substance List |
| U.S. - Minnesota - Permissible Exposure Limits - STELs |
| U.S. - Minnesota - Permissible Exposure Limits - TWAs |
| U.S. - Nebraska - Maximum Concentration of Contaminants for the Toxicity Characteristic |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual |
| U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - New Jersey - Special Health Hazards Substances List |
| U.S. - New Jersey - Water Quality - Ground Water Quality Criteria |
| U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs) |
| U.S. - New York - Occupational Exposure Limits - TWAs |
| U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances |
| U.S. - North Carolina - Control of Toxic Air Pollutants |
| U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour |
| U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour |
| U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues |
| U.S. - North Dakota - Hazardous Wastes - Maximum Concentration for the Toxicity Characteristic |
| U.S. - Oregon - Permissible Exposure Limits - TWAs |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |
| U.S. - Pennsylvania - RTK (Right to Know) List |
| U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour |
| U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour |
| U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations |
| U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories |
| U.S. - Tennessee - Occupational Exposure Limits - STELs |
| U.S. - Tennessee - Occupational Exposure Limits - TWAs |
| U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions |
| U.S. - Texas - Effects Screening Levels - Long Term |
| U.S. - Texas - Effects Screening Levels - Short Term |
| U.S. - Vermont - Hazardous Waste - Hazardous Constituents |

| **Methyl ethyl ketone (78-93-3)** |
|---|
| U.S. - Vermont - Hazardous Waste - Maximum Contaminant Concentration for Toxicity |
| U.S. - Vermont - Permissible Exposure Limits - STELs |
| U.S. - Vermont - Permissible Exposure Limits - TWAs |
| U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List |
| U.S. - Washington - Dangerous Waste - Discarded Chemical Products List |
| U.S. - Washington - Permissible Exposure Limits - STELs |
| U.S. - Washington - Permissible Exposure Limits - TWAs |

| **Tetrahydrofuran (109-99-9)** |
|---|
| |
| U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min) |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr) |
| U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations |
| U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) |
| U.S. - Idaho - Occupational Exposure Limits - TWAs |
| U.S. - Louisiana - Reportable Quantity List for Pollutants |
| U.S. - Maine - Air Pollutants - Hazardous Air Pollutants |
| U.S. - Massachusetts - Allowable Ambient Limits (AALs) |
| U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs) |
| U.S. - Massachusetts - Drinking Water Guidelines |
| U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1 |
| U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2 |
| U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity |
| U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1 |
| U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 |
| U.S. - Massachusetts - Right To Know List |
| U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs) |
| U.S. - Massachusetts - Toxics Use Reduction Act |
| U.S. - Michigan - Occupational Exposure Limits - STELs |
| U.S. - Michigan - Occupational Exposure Limits - TWAs |
| U.S. - Michigan - Polluting Materials List |
| U.S. - Minnesota - Hazardous Substance List |
| U.S. - Minnesota - Permissible Exposure Limits - STELs |
| U.S. - Minnesota - Permissible Exposure Limits - TWAs |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual |
| U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - New Jersey - Special Health Hazards Substances List |
| U.S. - New Jersey - Water Quality - Ground Water Quality Criteria |
| U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs) |
| U.S. - New York - Occupational Exposure Limits - TWAs |
| U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances |
| U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour |
| U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour |
| U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues |
| U.S. - Oregon - Permissible Exposure Limits - TWAs |
| U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |
| U.S. - Pennsylvania - RTK (Right to Know) List |
| U.S. - Tennessee - Occupational Exposure Limits - STELs |
| U.S. - Tennessee - Occupational Exposure Limits - TWAs |
| U.S. - Texas - Effects Screening Levels - Long Term |
| U.S. - Texas - Effects Screening Levels - Short Term |
| U.S. - Vermont - Permissible Exposure Limits - STELs |
| U.S. - Vermont - Permissible Exposure Limits - TWAs |
| U.S. - Washington - Dangerous Waste - Discarded Chemical Products List |
| U.S. - Washington - Permissible Exposure Limits - STELs |
| U.S. - Washington - Permissible Exposure Limits - TWAs |
| U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet |
| U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet |
| U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater |
| U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet |

## SECTION 16: Other information

| | | |
|---|---|---|
| Sources of Key data | : | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Other information | : | None. |

Full text of H-phrases: see section 16:

| | |
|---|---|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H351 | Suspected of causing cancer |

SDS US (GHS HazCom 2012)-Red Gray

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Fletch-Tite Platinum Thinner

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : Fletch-Tite Platinum Thinner

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Arrow fletching adhesives solvent/thinner.

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:
Bohning Company Ltd.

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

| | | |
|---|---|---|
| Flam. Liq. 2 | H225 - | Highly flammable liquid and vapor |
| Eye Irrit. 2A | H319 - | Causes serious eye irritation |
| Carc. 2 | H351 - | Suspected of causing cancer |
| STOT SE 3 | H335 - | May cause respiratory irritation |
| STOT SE 3 | H336 - | May cause drowsiness or dizziness |

Full text of H-statements: see section 16

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS02 GHS07 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :
H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer

Precautionary statements (GHS-US) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing fume, gas, mist, spray, vapors
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a POISON CENTER, a doctor if you feel unwell
P337+P313 - If eye irritation persists: get medical advice/attention
P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to

extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Methyl ethyl ketone | (CAS No) 78-93-3 | 60 - 80 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336 |
| Tetrahydrofuran | (CAS No) 109-99-9 | 10 - 30 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2A, H319<br>Carc. 2, H351<br>STOT SE 3, H335 |
| 4-methylpentan-2-one, isobutyl methyl ketone | (CAS No) 108-10-1 | 10 - 30 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation: vapor), H332<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Immediately flush the contact area with plenty of water. Gently wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking. Obtain medical attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids away from eyes (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

| | | |
|---|---|---|
| Explosion hazard | : | May form explosive peroxides. May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. |
| Reactivity | : | Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides. |

### 5.3. Advice for firefighters

| | | |
|---|---|---|
| Firefighting instructions | : | Approach from upwind. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area. |
| Protective equipment for firefighters | : | Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : | Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

| | | |
|---|---|---|
| General measures | : | Ensure adequate ventilation. Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No open flames. No smoking. Stop leak if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapor and spray mist. Avoid contact with skin, eyes and clothing. |

#### 6.1.1. For non-emergency personnel

| | | |
|---|---|---|
| Emergency procedures | : | Evacuate unnecessary personnel. |

#### 6.1.2. For emergency responders

| | | |
|---|---|---|
| Protective equipment | : | Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray. |
| Emergency procedures | : | Ventilate area. |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

| | | |
|---|---|---|
| Methods for cleaning up | : | Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not absorb in saw-dust or other combustible absorbents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Scoop solid spill into closing containers. Store away from other materials. Use only non-sparking tools. Take precautionary measures against static discharge. |
| Other information | : | Consult the appropriate local waste disposal expert about waste disposal. Ensure all national/local regulations are observed. |

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Additional hazards when processed | : | Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion. |
| Precautions for safe handling | : | Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Do not breathe gas, fumes, vapor or spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |
| Hygiene measures | : | Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Technical measures | : | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use spark-/explosion proof appliances and lighting system. |

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Keep away from heat. Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Strong oxidizers. Acids. Bases.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Methyl ethyl ketone (78-93-3) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 200 ppm |
| ACGIH | ACGIH STEL (ppm) | 300 ppm |
| ACGIH | Remark (ACGIH) | URT irr; CNS & PNS impair |
| OSHA | OSHA PEL (TWA) (mg/m³) | 590 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

| Tetrahydrofuran (109-99-9) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 50 ppm |
| ACGIH | ACGIH STEL (ppm) | 100 ppm |
| ACGIH | Remark (ACGIH) | URT irr; CNS impair; kidney dam |
| OSHA | OSHA PEL (TWA) (mg/m³) | 590 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | | |
|---|---|---|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | ACGIH STEL (ppm) | 75 ppm |
| ACGIH | Remark (ACGIH) | URT irr; dizziness; headache |
| OSHA | OSHA PEL (TWA) (mg/m³) | 410 mg/m³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Use personal protective equipment as required.

Hand protection : Wear protective gloves. Use neoprene or rubber gloves. Impermeable protective nitrile gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Long sleeved protective clothing. Rubber apron, boots.

Respiratory protection : An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits. Use a properly fitted, air-purifying or air-fed respirator if necessary.

Environmental exposure controls : Avoid discharge to the environment.

Other information : Do not eat, drink or smoke during use. Remove contaminated clothing.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Colorless

Odor : sweet odor

| | | |
|---|---|---|
| Odor threshold | : | No data available |
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | < 37.8 °C (<100 °F) |
| Flash point | : | < -9.4 °C (<15 °F) |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Explosive limits | : | 1.4 - 11 vol % |
| Explosive properties | : | May form explosive peroxides. |
| Oxidizing properties | : | No data available |
| Vapor pressure | : | 70 - 80 mm Hg |
| Relative density | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Density | : | > 1 |
| Solubility | : | Water: Soluble |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under use and storage conditions as recommended in section 7. Prolonged storage: may form peroxides.

### 10.2. Chemical stability

Stable under recommended storage conditions. Unstable on exposure to heat. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

May form explosive peroxides. May release flammable gases. Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact

Acute toxicity : Not classified

(Based on available data, the classification criteria are not met)

| **Fletch-Tite Platinum Thinner** | |
|---|---|
| ATE US (oral) | 5500 mg/kg |

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| LD50 oral rat | 2483 mg/kg |
| LD50 dermal rabbit | 5000 mg/kg |
| LC50 inhalation rat (ppm) | 11700 ppm/4h |

| **Tetrahydrofuran (109-99-9)** | |
|---|---|
| LD50 oral rat | 1650 mg/kg |
| LC50 inhalation rat (ppm) | 21000 ppm (Exposure time: 3 h) |

| 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1) | |
|---|---|
| LD50 oral rat | 2080 mg/kg |
| LD50 dermal rabbit | 3000 mg/kg |
| LC50 inhalation rat (mg/l) | 8.2 mg/l/4h |

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met)Based on available data, the classification criteria are not met

Carcinogenicity : Suspected of causing cancer.

| Tetrahydrofuran (109-99-9) | |
|---|---|
| National Toxicology Program (NTP) Status | 1 - Evidence of Carcinogenicity |

Reproductive toxicity : Not classified
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified
(Based on available data, the classification criteria are not met)

Potential Adverse human health effects and symptoms : May cause cancer.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation. Feeling of intoxication. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| LC50 fish 1 | 3130 - 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | > 520 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Daphnia 2 | 5091 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| Tetrahydrofuran (109-99-9) | |
|---|---|
| LC50 fish 1 | 1970 - 2360 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2 | 2700 - 3600 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Methyl ethyl ketone (78-93-3) | |
|---|---|
| Log Pow | 0.29 |

| Tetrahydrofuran (109-99-9) | |
|---|---|
| BCF fish 1 | (will not bioconcentrate) |
| Log Pow | 0.45 (at 25 °C) |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

| | | |
|---|---|---|
| Waste disposal recommendations | : | Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulations. Allow volatiles to evaporate. Dispose of solid residue according to applicable regulations. Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws. Ensure all national/local regulations are observed. |
| Additional information | : | Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion. |
| Ecology - waste materials | : | Avoid release to the environment. |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

| | | |
|---|---|---|
| Transport document description | : | UN1263 Paint related material (including paint thinning, drying, removing, or reducing compound), 3, II |
| UN-No.(DOT) | : | UN1263 |
| Proper Shipping Name (DOT) | : | Paint related material<br>including paint thinning, drying, removing, or reducing compound |
| Transport hazard class(es) (DOT) | : | 3 - Class 3 - Flammable liquid 49 CFR 173.120 |
| Hazard labels (DOT) | : | 3 - Flammable liquid |


| | | |
|---|---|---|
| Packing group (DOT) | : | II - Medium Danger |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : | 173 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : | 242 |
| DOT Special Provisions (49 CFR 172.102) | : | 149<br>B52<br>IB2<br>T4<br>TP1<br>TP8<br>TP28 |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : | 150 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : | 5 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : | 60 L |
| DOT Vessel Stowage Location | : | B |
| Other information | : | No supplementary information available. |

### TDG

| | | |
|---|---|---|
| Transport document description | : | UN1263 PAINT RELATED MATERIAL (PAINT RELATED MATERIAL), 3, II |
| UN-No. (TDG) | : | UN1263 |
| TDG Proper Shipping Name | : | PAINT RELATED MATERIAL |
| TDG Primary Hazard Classes | : | 3 - Class 3 - Flammable Liquids |
| Packing group | : | II - Medium Danger |
| TDG Special Provisions | : | 59<br>83 |
| Explosive Limit and Limited Quantity Index | : | 5 |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : | 5 |

### Transport by sea

| | | |
|---|---|---|
| UN-No. (IMDG) | : | 1263 |
| Proper Shipping Name (IMDG) | : | PAINT RELATED MATERIAL |

| | |
|---|---|
| Class (IMDG) | : 3 - Flammable liquids |
| Packing group (IMDG) | : II - substances presenting medium danger |
| MFAG-No | : 127;128 |

### Air transport

| | |
|---|---|
| UN-No. (IATA) | : 1263 |
| Proper Shipping Name (IATA) | : Paint related material |
| Class (IATA) | : 3 - Flammable Liquids |
| Packing group (IATA) | : II - Medium Danger |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

| **Tetrahydrofuran (109-99-9)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |

| **4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)** | |
|---|---|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

#### CANADA

| **Methyl ethyl ketone (78-93-3)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| **Tetrahydrofuran (109-99-9)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| **4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)** | |
|---|---|
| WHMIS Classification | Class B Division 2 - Flammable Liquid<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

#### EU-Regulations

No additional information available

#### National regulations

| **Methyl ethyl ketone (78-93-3)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Japanese Poisonous and Deleterious Substances Control Law<br>Listed on the Canadian IDL (Ingredient Disclosure List)<br>Listed on INSQ (Mexican national Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical |

| Tetrahydrofuran (109-99-9) |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances) |
| Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) |
| Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory |
| Listed on the Korean ECL (Existing Chemicals List) |
| Listed on NZIoC (New Zealand Inventory of Chemicals) |
| Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) |
| Listed on the Canadian IDL (Ingredient Disclosure List) |
| Listed on INSQ (Mexican national Inventory of Chemical Substances) |
| Listed on Turkish inventory of chemical |

### 15.3. US State regulations
No additional information available

## SECTION 16: Other information

Indication of changes : None.

Sources of Key data : Data arise from reference works and literature.

Other information : None.

Full text of H-statements:

| | |
|---|---|
| Acute Tox. 4 (Inhalation: vapor) | Acute toxicity (inhalation: vapor) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H351 | Suspected of causing cancer |

SDS US (GHS HazCom 2012)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Grit Guard

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 18 January 2019 Version: 1.0

## SECTION 1: Identification

### 1.1. Product identifier

Product form : Substance

Trade name : Grit Guard

### 1.2. Recommended use and restrictions on use

Recommended use : Bowstring Wax

### 1.3. Supplier

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

**Classification (GHS-CA)**

Not classified

### 2.2. GHS Label elements, including precautionary statements

**GHS-CA labelling**

No labelling applicable

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-CA)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : Grit Guard

| Name | Product identifier | % | Classification (GHS-CA) |
|---|---|---|---|
| Paraffin waxes and Hydrocarbon waxes | (CAS No) 8002-74-2 | 100 | Not classified |

Full text of hazard classes and H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. May be harmful if inhaled.

Symptoms/injuries after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use. Repeated or prolonged skin contact may cause irritation.

Symptoms/injuries after eye contact : Not expected to present a significant skin hazard under anticipated conditions of normal use. Prolonged contact may cause slight irritation.

Symptoms/injuries after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. May cause stomach pain or discomfort.

### 4.3. Immediate medical attention and special treatment, if necessary

Note to physician : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.3. Specific hazards arising from the hazardous product

Fire hazard : Minimal fire hazard. On combustion, forms: carbon oxides (CO and CO2).

Explosion hazard : None known.

Reactivity : None under normal conditions.

### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Other information : If spilled, may cause the floor to be slippery.

### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container closed when not in use.

Incompatible materials : Oxidizing agents.

Storage temperature : < 82 °C (<180°F)

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **Paraffin waxes and Hydrocarbon waxes (8002-74-2)** | | |
|---|---|---|
| Canada (Quebec) | VEMP (mg/m³) | 2 mg/m³ (fume) |
| Alberta | OEL TWA (mg/m³) | 2 mg/m³ (fume) |
| British Columbia | OEL TWA (mg/m³) | 2 mg/m³ (fume) |
| Manitoba | OEL TWA (mg/m³) | 2 mg/m³ (fume) |
| New Brunswick | OEL TWA (mg/m³) | 2 mg/m³ (fume) |
| New Foundland & Labrador | OEL TWA (mg/m³) | 2 mg/m³ (fume) |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | | |
|---|---|---|
| Nova Scotia | OEL TWA (mg/m³) | 2 mg/m³ (fume) |
| Nunavut | OEL STEL (mg/m³) | 4 mg/m³ |
| Nunavut | OEL TWA (mg/m³) | 2 mg/m³ |
| Northwest Territories | OEL STEL (mg/m³) | 4 mg/m³ |
| Northwest Territories | OEL TWA (mg/m³) | 2 mg/m³ |
| Ontario | OEL TWA (mg/m³) | 2 mg/m³ (fume) |
| Prince Edward Island | OEL TWA (mg/m³) | 2 mg/m³ (fume) |
| Québec | VEMP (mg/m³) | 2 mg/m³ (fume) |
| Saskatchewan | OEL STEL (mg/m³) | 4 mg/m³ |
| Saskatchewan | OEL TWA (mg/m³) | 2 mg/m³ |
| Yukon | OEL STEL (mg/m³) | 6 mg/m³ (fume) |
| Yukon | OEL TWA (mg/m³) | 2 mg/m³ (fume) |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapour concentrations.

### 8.3. Individual protection measures/Personal protective equipment

Hand protection : Heat resistant gloves. Chemical resistant PVC gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear heat resistant boots and protective clothing when handling material at elevated temperatures.

Respiratory protection : NIOSH/MSHA approved air purifying respirator should be used if operating conditions produce airborne concentrations that exceed exposure limits for any individual components. If conditions immediately dangerous to life or health exist, use NIOSH/MSHA self-contained breathing apparatus (SCBA).

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : No data available

Colour : Water white to light yellow

Odour : Faint odour Mild odour

Odour threshold : No data available

pH : No data available

pH solution : No data available

Relative evaporation rate (butylacetate=1) : No data available

Relative evaporation rate (ether=1) : No data available

Melting point : 54 - 68 °C

Freezing point : No data available

Boiling point : > 316 °C

Flash point : > 200 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable

Vapour pressure : 0.1 kPa at 20°C

Vapour pressure at 50 °C : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Relative density of saturated gas/air mixture : No data available

Density : 0.812 (Water = 1)

Relative gas density : No data available

Solubility : Negligible in water.

Log Pow : (n-Octanol/Water Partition Coefficient): >6

Log Kow : No data available

Viscosity, kinematic : [N/A @ 40°C] 3.3 – 14.0 mm2/sec (cSt) at 100°C (212°F)

| | | |
|---|---|---|
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

| | | |
|---|---|---|
| Reactivity | : | None under normal conditions. |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | Hazardous polymerization will not occur. |
| Conditions to avoid | : | Direct sunlight. Extremely high or low temperatures. Open flame. |
| Incompatible materials | : | Oxidizing agents. |
| Hazardous decomposition products | : | Fume. Carbon monoxide. Carbon dioxide. On combustion, forms: hydrocarbons. |

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Likely routes of exposure | : | Ingestion. Inhalation. Skin and Eye contact. |
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |
| Skin corrosion/irritation | : | Not classified |
| Serious eye damage/irritation | : | Not classified |
| Respiratory or skin sensitization | : | Not classified |
| Germ cell mutagenicity | : | Not classified |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified |
| STOT-single exposure | : | Not classified |
| STOT-repeated exposure | : | Not classified |
| Aspiration hazard | : | Not classified |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 12.2. Persistence and degradability

| **Grit Guard** | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| **Grit Guard** | |
|---|---|
| Log Pow | (n-Octanol/Water Partition Coefficient): >6 |
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

| **Grit Guard** | |
|---|---|
| Log Pow | (n-Octanol/Water Partition Coefficient): >6 |

### 12.5. Other adverse effects

| | | |
|---|---|---|
| GWPmix comment | : | No known effects from this product. |
| Other information | : | Avoid release to the environment. |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

| | | |
|---|---|---|
| Waste disposal recommendations | : | Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : | Avoid release to the environment. |

## SECTION 14: Transport information

### 14.1. Basic shipping description

In accordance with TDG

**TDG**

Not regulated for transport

### 14.2. Transport information/DOT

**DOT**

Not regulated for transport

### 14.3. Air and sea transport

**IMDG**

Not regulated for transport

**IATA**

Not regulated for transport

## SECTION 15: Regulatory information

### 15.1. National regulations

| **Paraffin waxes and Hydrocarbon waxes (8002-74-2)** |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

### 15.2. International regulations

| **Paraffin waxes and Hydrocarbon waxes (8002-74-2)** |
|---|
| Listed on the AICS (Australian Inventory of Chemical Substances)<br>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)<br>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)<br>Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory<br>Listed on the Korean ECL (Existing Chemicals List)<br>Listed on NZIoC (New Zealand Inventory of Chemicals)<br>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)<br>Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on INSQ (Mexican National Inventory of Chemical Substances)<br>Listed on Turkish inventory of chemical |

## SECTION 16: Other information

| | | |
|---|---|---|
| Date of issue | : | 22 November 2016 |
| Sources of Key data | : | According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830. |
| Indication of changes | : | None. |
| Other information | : | None. |

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Insert Iron

## Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Trade name : Insert Iron

Other means of identification : Polyurethane Bonding Adhesive

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Gluing inserts in carbon, cedar, aluminum and fiberglass arrow shafts

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

| | |
|---|---|
| Acute Tox. 4 (Inhalation:dust,mist) | H332 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2A | H319 |
| Resp. Sens. 1 | H334 |
| Skin Sens. 1 | H317 |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |

**WHMIS Classification**

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS07 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :
H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P284 - [In case of inadequate ventilation] wear respiratory protection
P301+330+331 – IF SWALLOWED, rinse mouth, DO NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER/doctor/…/if you feel unwell
P314 - Get medical advice and attention if you feel unwell
P321 - Specific treatment (see ... on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/…
P362 - Take off contaminated clothing
P362+P364 - Take off contaminated clothing and wash it before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to comply with applicable local, national and international regulations.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

| Name | Product identifier | EINECS Number | % | GHS-US Classification |
|---|---|---|---|---|
| Methylenediphenyl diisocyanate (MDI) mixed isomers | (CAS No) 26447-40-5 | 247-714-0 | < 25 | Acute Tox. 2 (Inhalation:dust,mist), H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Carc. 2 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure. Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause sensitization by inhalation.

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. Keep victim warm and rested. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. In case of unconsciousness place patient stably in side for transportation.

First-aid measures after skin contact : Wash with plenty of soap and water. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after eye contact : Rinse immediately with plenty of water. Keep eye wide open while rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Product is not intended to be ingested or eaten. If it this product is ingested, it may cause gastrointestinal blockage. If ingested, it may cause severe irritation of the gastrointestinal tract, and should be treated symptomatically. DO NOT induce the patient or animal to vomit. Call a physician or seek medical attention immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Can occur: eye irritation, irritation of mucous membranes and skin irritation.

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause sensitization by inhalation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Acute Ingestion: May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. LARGE FIRES: Water spray, fog, foam.

Unsuitable extinguishing media : Do not use a heavy water stream. Full water jet.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : An exothermic reaction may occur. Reacts with water to liberate CO2 gas which may build pressure in closed containers.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, NOx. Hydrogen cyanide (hydrocyanic acid).

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Use appropriate container to avoid environmental contamination. Store away from other materials. Keep the material damp and exposed to the air in a secure area ($CO_2$-formation!) until completely solidified. Dispose of contents/container to comply with applicable local, national and international regulations. In the event of a large spill, treat spill area with decontamination solution. Preparation of decontamination solution: Prepare a mixture of 0.2 - 0.5% liquid detergent and 3 - 8% concentrated ammonium hydroxide in water (5 - 10% sodium carbonate may be substituted for the ammonium hydroxide).

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Prevent formation of aerosol. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Exhaust ventilation required during spraying or when material is being used at temperatures above 100 °F (37.7 °C).

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation of the storage area.

Storage conditions : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep only in the original container in a cool well ventilated place. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Store away from direct sunlight or other heat sources. Keep away from sources of ignition - No smoking. DO NOT store below 40 °F (4.4 °C) or above 110 °F (43.3 °C).

Incompatible materials : Keep away from strong acids, strong bases and oxidizing agents.

Storage temperature : 59 - 77 °F (15 - 25 °C )

Heat and ignition sources : Remove all sources of ignition.

Special rules on packaging : correctly labelled.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5) | | |
|---|---|---|
| OSHA | OSHA PEL (Ceiling) (mg/m3) | 0.2 mg/m³ |
| OSHA | OSHA PEL (Ceiling) (ppm) | 0.02 ppm |
| Nunavut | OEL Ceiling (mg/m³) | 0.2 mg/m³ |
| Nunavut | OEL Ceiling (ppm) | 0.02 ppm |
| Northwest Territories | OEL Ceiling (mg/m³) | 0.2 mg/m³ |
| Northwest Territories | OEL Ceiling (ppm) | 0.02 ppm |

### 8.2. Exposure controls

Appropriate engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Avoid all unnecessary exposure. Protective clothing. Respiratory protection of the dependent type. Protective goggles. Insulated gloves.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. if necessary: tightly fitting safety goggles.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained apparatus.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : light to dark amber.

Colour : Colourless.

odour : characteristic.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : > 200 °C (> 392°F)

Self ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.1 g/cm³ Density at 20°C (68°F): 1.1 g/cm³ (9.18 lbs/gal)

Solubility : insoluble in water.
Water: Insoluble. Reacts with water

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

| | | |
|---|---|---|
| Viscosity, dynamic | : | 7000 mPa.s Dynamic at 24°C (75°F) |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

An exothermic reaction may occur. Reacts with water to liberate CO2 gas which may build pressure in closed containers.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Exothermic reaction on contact with : water, amines and alcohol's. Reacts with water at the interface, producing CO2 gas, and forming a solid and insoluble product, with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents), or by water-soluble solvents. Previous experience demonstrates that polyurea is inert and non-degradable. Water hazard class 1 (self-assessment): slightly hazardous for water.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

| **Insert Iron** | |
|---|---|
| ATE (dust,mist) | 1.500 mg/l/4h |

| **Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)** | |
|---|---|
| LD50 oral rat | > 7400 mg/kg |
| LD50 dermal rabbit | > 6200 mg/kg |
| LC50 inhalation rat (mg/l) | 0.369 mg/l (Exposure time: 4 h) |
| ATE (dust,mist) | 0.369 mg/l/4h |

| | | |
|---|---|---|
| Skin corrosion/irritation | : | Causes skin irritation. |
| Serious eye damage/irritation | : | Causes serious eye irritation. |
| Respiratory or skin sensitisation | : | May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. |
| Germ cell mutagenicity | : | Not classified. Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified |

| **Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)** | |
|---|---|
| IARC group | 3 |

| | | |
|---|---|---|
| Reproductive toxicity | : | Not classified. Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | : | May cause damage to organs through prolonged or repeated exposure.Based on available data, the classification criteria are not met |
| Aspiration hazard | : | Not classified. Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : | Harmful if inhaled. |
| Symptoms/injuries after inhalation | : | Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause sensitization by inhalation. |
| Symptoms/injuries after skin contact | : | Causes skin irritation. |
| Symptoms/injuries after eye contact | : | Causes serious eye irritation. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5) | |
|---|---|
| EC50 Daphnia 1 | > 1000 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| EC50 other aquatic organisms 1 | 3230 mg/l (Exposure time: 96 h - Species: Skeletonema costatum) |
| NOEC (acute) | >= 1000 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida) |

### 12.2. Persistence and degradability

| Insert Iron | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Insert Iron | |
|---|---|
| Bioaccumulative potential | Not established. |

| Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5) | |
|---|---|
| BCF fish 1 | 3 - 14 |
| Log Pow | 4.5 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Information in this section pertains to the product as shipped in its intended composition as described in Section 2 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations. Empty containers may only be disposed of after neutralizing any product remaining on the walls of the containers with a mixture of isopropanol, ammonia and water and removal of the warning labels. For preparation of decontamination solution, refer to section 6.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

DOT NA no. NA3082

### 14.2. UN proper shipping name

DOT Proper Shipping Name : Other regulated substances, liquid, n.o.s.

Department of Transportation (DOT) Hazard Classes : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Miscellaneous dangerous substances and articles


DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name

Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T2 - 1.5 178.274(d)(2) Normal 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241

### 14.2 Additional information

Other information : Single containers less than 5000 lbs are not regulated. Single containers with 5,000 lbs or more of methylenediphenyl diisocyanate are regarded as class 9, NA3082, PG III.

**Overland transport**

Packing group (ADR) : III
Class (ADR) : 9 - Miscellaneous dangerous substances and articles
Hazard identification number (Kemler No.) : 90
Classification code (ADR) : M6
Danger labels (ADR) : 9 - Miscellaneous dangerous substances and articles


Orange plates :


Tunnel restriction code : E
Excepted quantities (ADR) : E1

**Transport by sea**

DOT Vessel Stowage Location : A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.

**Air transport**

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit

## SECTION 15: Regulatory information

**CANADA**

| **Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)** |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

### 15.2. International regulations

| **Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

| **Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)** |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

**Classification according to Regu lation (E( ) No. 1272/2008 [CLP]**

| | |
|---|---|
| Acute Tox. 4 (Inhalation:dust,mist) | H332 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Resp. Sens. 1 | H334 |
| Skin Sens. 1 | H317 |
| Carc. 2 | H351 |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Carc.Cat.3; R40
Xn; R20
Xn; R48/20
Xn; R42
Xi; R36/37/38
Xi; R43

Full text of R-phrases: see section 16

**15.2.2. National regulations**

| **Insert Iron** |
|---|
| Single containers less than 5000 lbs are not regulated. Single containers with 5,000 lbs or more of methylenediphenyl diisocyanate are regarded as class 9, NA3082, PG III |

| **Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)** |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

| | |
|---|---|
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Resp. Sens. 1 | Sensitisation — Respiratory, category 1 |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, category 1 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H330 | Fatal if inhaled |
| H332 | Harmful if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation |
| H373 | May cause damage to organs through prolonged or repeated exposure |

**HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 1 Slight Hazard
Physical : 1 Slight Hazard

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Lightning Lube

Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Trade name : Lightning Lube

Other means of identification : Liquid Bow String Wax

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Liquid Bow String Wax

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

**WHMIS Classification**

### 2.2. Label elements

other hazards which do not result in classification : prolonged exposure. Inhalation may cause irritation, cough, short breathing. Prolonged or repeated contact with the skin may cause dermatitis. Liquid silicone based materials have lubricating properties that can substantially reduce or eliminate traction and may pose a slip hazard. Please use warning labels on consumer products where traction is essential for safety.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name : Lightning Lube

| Name | Product identifier | % | GHS-US classification | WHMIS Classification |
|---|---|---|---|---|
| Poly(dimethylsiloxane) | (CAS No) 63148-62-9 | 98 - 100 | Not classified | |

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Vaporization is not expected at ambient temperatures.
At room temperature, exposure by inhalation is not expected to cause any adverse effects on health. If user operations generate dust or fumes, assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : Wipe off excess material; do not use force removing from skin. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water. If skin irritation occurs: Get medical advice/attention. Risk of thermal burns on contact with molten product. After contact with molten product, cool skin area rapidly with cold water. When using high-pressure equipment, injection of product can occur. If material is injected under the skin, seek medical attention immediately. Remove contaminated clothing.

First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. Special danger of slipping by leaking/spilling product. If user operation generates fumes. May cause irritation to the skin and eyes. May cause respiratory irritation. Pre-existing eye and respiratory disorders may be aggravated by exposure. May aggravate asthma and dermatitis.

Symptoms/injuries after inhalation : If user operation generates fumes. Fumes are irritating to the respiratory system.

Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation. Repeated exposure may cause skin dryness or cracking. Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation.

Symptoms/injuries after ingestion : Not applicable.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Sand. Water mist.

Unsuitable extinguishing media : Water spray. Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Avoid (reject) fire-fighting water to enter environment. Use water spray to cool unopened containers.

Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Caution: this product can cause the floor to be slippery. This material will float on water. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, SiO2.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spills of this product present a serious slipping hazard. Control airborne concentrations below the exposure limits. Avoid inhalation of vapors. Wear suitable protective clothing and eye/face protection. This material will float on water. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels. Relevant water authorities should be notified of any large spillage to water course or drain. Material spilled on hard surface can present a serious slipping/falling hazard. Material spilled on hard surface can present a serious slipping/falling hazard.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel. Special danger of slipping by leaking/spilling product. Stop leak if safe to do so. Clean up even minor leaks or spills if possible without unnecessary risk.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Wear suitable protective clothing. Boots.

Emergency procedures : Ventilate area. Avoid generation of dust. When leaks or spills occur, only properly protected personnel should remain in the area. Stop leak if safe to do so. Special danger of slipping by leaking/spilling product.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Use appropriate container to avoid environmental contamination. This material and its container must be disposed of in a safe way, and as per local legislation. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Special danger of slipping by leaking/spilling product.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide adequate ventilation. Avoid breathing dust, mist or spray. Avoid inhalation of product. Avoid contact with skin and eyes. Avoid release to the environment. Wear recommended personal protective equipment.

Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.

Incompatible materials : Strong acid. Strong bases. Strong oxidizing agent.

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : Correctly labelled. Store in a closed container. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. Facilities: shower, eye shower.

Personal protective equipment : The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses with side-shields.

Skin and body protection : Long sleeved protective clothing, safety foot-wear. Wear personal protection equipment.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection : Wear heat resistant boots and protective clothing when handling material at elevated temperatures.

Environmental exposure controls : Avoid release to the environment.

Consumer exposure controls : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear

Colour : Clear, Colorless

odour : Odorless

Odour threshold : No data available

| | | |
|---|---|---|
| pH | : | 7 |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | -55 °C (-67 °F) |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | > 250 °C (> 482 °F) (ISO 2592)<br>> 150 °C (> 302 °F) (EN 22719) |
| Self-ignition temperature | : | approx. 450 °C (842 °F) (DIN 51794) |
| Decomposition temperature | : | > 250 °C ( > 482 °F) |
| Flammability (solid, gas) | : | No data available |
| Vapour pressure | : | < 0.13 hPa at 20 °C |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Density | : | 0.965 (Specific gravity) (25 °C (77 °F) ) |
| Solubility | : | Insoluble in water. |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | 50 mm²/s (25 °C (77 °F) ) (DIN 53018) |
| Viscosity, dynamic | : | 50 Pas (25 °C (77 °F) ) |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon oxides (CO, CO2). Silicon dioxide. Formation of small amounts of formaldehyde at temperatures above 150 °C (302 °F) occurs through oxidation.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified<br>pH: 7 |
| Serious eye damage/irritation | : | Not classified<br>pH: 7 |
| Respiratory or skin sensitization | : | Not classified |
| Germ cell mutagenicity | : | Not classified. Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified. Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | Not classified |
| Specific target organ toxicity (repeated exposure) | : | Not classified. Based on available data, the classification criteria are not met |

| | | |
|---|---|---|
| Aspiration hazard | : | Not classified. Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : | Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : | If user operation generates fumes. Fumes are irritating to the respiratory system. |
| Symptoms/injuries after skin contact | : | Frequent or prolonged contact with skin may cause dermal irritation. Repeated exposure may cause skin dryness or cracking. Risk of thermal burns on contact with molten product. |
| Symptoms/injuries after eye contact | : | Dust from this product may cause eyes irritation. |
| Symptoms/injuries after ingestion | : | Not applicable. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Lightning Lube | |
|---|---|
| Persistence and degradability | Biologically not degradable. Degradable to a certain extent in abiotic processes. Elimination by adsorption to activated sludge. |

### 12.3. Bioaccumulative potential

| Lightning Lube | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels. Insoluble in water. Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Additional information : This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

### 15.2. International regulations

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

**15.2.2. National regulations**

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

## SECTION 16: Other information

**HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Seal-Tite Bow String Wax

## Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Trade name : Seal-Tite Bow String Wax

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Bowstring wax

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

**WHMIS Classification**

### 2.2. Label elements

other hazards which do not result in classification : prolonged exposure. Inhalation may cause irritation, cough, short breathing. Prolonged or repeated contact with the skin may cause dermatitis. Provide adequate protection in areas where molten material is possible to emerge. Vapors from molten wax may cause irritation and tearing.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Ethene, homopolymer | (CAS No) 9002-88-4 | 74 - 95 | Not classified |
| Stearic acid | (CAS No) 57-11-4 | 5 - 20 | Not classified |
| Poly(dimethylsiloxane) | (CAS No) 63148-62-9 | 1 - 5 | Not classified |

| Stearic acid (57-11-4) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Risk of thermal burns on contact with molten product. After contact with molten product, cool skin area rapidly with cold water.

First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : If user operations generate dust or fumes, . Can occur: eye irritation, irritation of mucous membranes and skin irritation. Irritating to the nose, throat, and respiratory tract.

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : Dust from this product may cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation. redness, itching, tears.

Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways. May cause irritation in mouth, gullet and stomach.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand. For large fires use foam or water fog.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. In the event of a fire, wear a self-contained breathing apparatus (SCBA).

Other information : Fumes may be irritating.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Control airborne concentrations below the exposure limits. Avoid inhalation of product. Spilled material may present a slipping hazard. Wear suitable protective clothing and eye/face protection.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing powdered dust. Wear suitable protective clothing.

Emergency procedures : Ventilate area. Avoid raising powdered materials into airborne dust.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain and/or absorb spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. On land, sweep or shovel into suitable containers. Scoop absorbed substance into closing containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide adequate ventilation. Avoid raising powdered materials into airborne dust. avoid breathing dust. Avoid inhalation of product. Avoid ignition sources.

| | | |
|---|---|---|
| Hygiene measures | : | Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Technical measures | : | Ensure adequate ventilation. Remove all sources of ignition. |
| Storage conditions | : | Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid ignition sources. |
| Incompatible materials | : | Strong acid. Strong bases. Strong oxidizing agent. |
| Storage area | : | Store in dry, cool, well-ventilated area. |
| Special rules on packaging | : | correctly labelled. Store in a closed container. Keep container tightly closed. |

### 7.3. Specific end use(s)

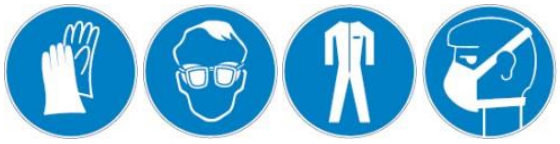
No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

| | | |
|---|---|---|
| Appropriate engineering controls | : | Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. Facilities: shower, eye shower. |
| Personal protective equipment | : | The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing. Dust formation: dust mask. |



| | | |
|---|---|---|
| Hand protection | : | Nitrile-rubber protective gloves. |
| Eye protection | : | Chemical goggles or safety glasses. with side-shields. Face-shield. |
| Skin and body protection | : | Long sleeved protective clothing. Rubber apron, boots. Wear personal protection equipment. |
| Respiratory protection | : | Wear appropriate mask. Use appropriate respiratory protection. Wear suitable respiratory equipment. |
| Environmental exposure controls | : | Avoid release to the environment. |
| Other information | : | Do not eat, drink or smoke during use. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Appearance | : | white. wax. |
| Colour | : | white. |
| odour | : | odorless. |
| Odour threshold | : | No data available |
| pH | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | 86.7 - 92.2 °C |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Self ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Density | : | > 1 (H20=1): 0.970/1.00 |
| Solubility | : | Miscible with water. |
| Log Pow | : | No data available |
| Log Kow | : | No data available |

| | | |
|---|---|---|
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

### 10.6. Hazardous decomposition products

fume. Silicon dioxide. Carbon monoxide. Carbon dioxide (CO2).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Ethene, homopolymer (9002-88-4) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |

| | | |
|---|---|---|
| Skin corrosion/irritation | : | Not classified |
| Serious eye damage/irritation | : | Not classified |
| Respiratory or skin sensitisation | : | Not classified |
| Germ cell mutagenicity | : | Not classifiedBased on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified |

| Ethene, homopolymer (9002-88-4) | |
|---|---|
| IARC group | 3 |

| | | |
|---|---|---|
| Reproductive toxicity | : | Not classifiedBased on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | Not classified |

Specific target organ toxicity (repeated exposure) : Not classifiedBased on available data, the classification criteria are not met

| | | |
|---|---|---|
| Aspiration hazard | : | Not classifiedBased on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : | Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : | Inhalation of dust may cause irritation of the respiratory system. |
| Symptoms/injuries after skin contact | : | Dust from this product may cause skin irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/injuries after eye contact | : | Dust from this product may cause eyes irritation. redness, itching, tears. |
| Symptoms/injuries after ingestion | : | May be harmful if swallowed and enters airways. May cause irritation in mouth, gullet and stomach. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

**Seal-Tite Bow String Wax**

### 12.3. Bioaccumulative potential

| Seal-Tite Bow String Wax | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Additional information : Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous waste be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method. This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| Ethene, homopolymer (9002-88-4) |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

| Stearic acid (57-11-4) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

### 15.2. International regulations

| Ethene, homopolymer (9002-88-4) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Stearic acid (57-11-4) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

| Stearic acid (57-11-4) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

#### 15.2.2. National regulations

| Ethene, homopolymer (9002-88-4) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

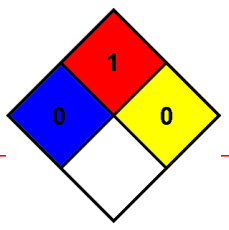
| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

| Stearic acid (57-11-4) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS)<br>Listed on the Canadian Ingredient Disclosure List |

## SECTION 16: Other information

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.



| | |
|---|---|
| NFPA reactivity | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |

**HMIS III Rating**

| | |
|---|---|
| Health | : 0 Minimal Hazard - No significant risk to health |
| Flammability | : 1 Slight Hazard |
| Physical | : 0 Minimal Hazard |

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# SSR Shaft Cleaner

## Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/2019 Version: 1.1 Updated: 10/28/16

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Trade name : SSR Shaft Cleaner

Other means of identification : Silane, dichlorodimethyl-, reaction products with silica

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Arrow shaft cleaner

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Acute Tox. 4 (Oral) H302
Skin Corr. 1B H314
STOT SE 3 H335

**WHMIS Classification**

### 2.2. Label elements

**GHS-US labelling**

Hazard pictograms (GHS-US) :

GHS05 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash ... thoroughly after handling
P270 - Do no eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P312 - If swallowed, call a doctor if you feel unwell
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER/doctor/…
P312 - Call a POISON CENTER/doctor/…/if you feel unwell
P321 - Specific treatment (see ... on this label)
P330 - If swallowed, rinse mouth
P363 - Wash contaminated clothing before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up

P501 - Dispose of contents/container to ...

### 2.3. Other hazards

other hazards which do not result in classification : Likely routes of exposure: ingestion, inhalation, skin and eye. Prolonged and repeated inhalation of decomposition products may cause a pulmonary oedema.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Sodium metasilicate | (CAS No) 6834-92-0 | > 20 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>STOT SE 3, H335 |
| Alcohols, C9-11, ethoxylated | (CAS No) 68439-46-3 | > 20 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318 |
| Tetrasodium EDTA | (CAS No) 64-02-8 | > 10 | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318 |
| Sodium carbonate, monohydrate | (CAS No) 5968-11-6 | > 10 | Not classified |

| **Sodium metasilicate (6834-92-0)** | |
|---|---|
| WHMIS Classification | Class E - Corrosive Material |

| **Tetrasodium EDTA (64-02-8)** | |
|---|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| **Sodium carbonate, monohydrate (5968-11-6)** | |
|---|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects<br>Class E - Corrosive Material |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. (for at least 15 minutes). Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Give water or milk if the person is fully conscious.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Irritating to eyes, respiratory system and skin. Feeling of intoxication may occur. May aggravate asthma and dermatitis.

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : Irritating to skin. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Irritating to eyes.

Symptoms/injuries after ingestion : Harmful if swallowed. Abdominal pain. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Control airborne concentrations below the exposure limits. Avoid inhalation of product. Spilled material may present a slipping hazard. Wear suitable protective clothing and eye/face protection.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing powdered dust. Wear suitable protective clothing.

Emergency procedures : Ventilate area. Avoid raising powdered materials into airborne dust.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Avoid raising powdered materials into airborne dust.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid raising powdered materials into airborne dust. Avoid inhalation of product. avoid breathing dust.

Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices. Remove contaminated clothing immediately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing prior to re-use.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.

Incompatible materials : Strong acid. Strong bases. Strong oxidizing agent.

Storage temperature : 40 - 120 °F (4.44 - 48.89 °C )

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : correctly labelled. Store in a closed container. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

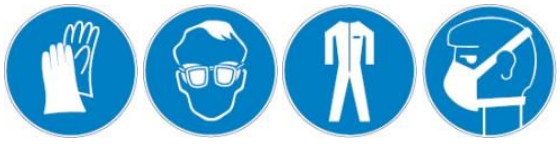
## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing. Dust formation: dust mask.



| | | |
|---|---|---|
| Hand protection | : | Wear protective gloves. NR (Natural rubber (caoutchouc), Natural latex). |
| Eye protection | : | Chemical goggles or safety glasses. with side-shields. |
| Skin and body protection | : | Wear personal protection equipment. Long sleeved protective clothing. safety foot-wear. Rubber boots. |
| Respiratory protection | : | Wear appropriate mask. |
| Environmental exposure controls | : | Avoid release to the environment. |
| Other information | : | Do not eat, drink or smoke during use. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Appearance | : | Powder. |
| Colour | : | Green. |
| odour | : | Odorless. |
| Odour threshold | : | No data available |
| pH | : | 12.3 |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | <0 C |
| Boiling point | : | >100 C |
| Flash point | : | No data available |
| Self ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Density | : | Specific gravity (H2O = 1) |
| Solubility | : | (100%) in water. |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

VOC content : 10 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Amines.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

| SSR Shaft Cleaner | |
|---|---|
| ATE (oral) | 500.000 mg/kg bodyweight |

| Sodium metasilicate (6834-92-0) | |
|---|---|
| LD50 oral rat | 600 mg/kg |
| ATE (oral) | 600.000 mg/kg bodyweight |

| Alcohols, C9-11, ethoxylated (68439-46-3) | |
|---|---|
| ATE (oral) | 500.000 mg/kg |

| Tetrasodium EDTA (64-02-8) | |
|---|---|
| ATE (oral) | 500.000 mg/kg |

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 12.3

Serious eye damage/irritation : Not classified
pH: 12.3

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified. Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classified. Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified. Based on available data, the classification criteria are not met

Aspiration hazard : Not classified. Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : Irritating to skin. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Irritating to eyes.

Symptoms/injuries after ingestion : Harmful if swallowed. Abdominal pain. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Sodium metasilicate (6834-92-0) | |
|---|---|
| LC50 fishes 1 | 210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static]) |
| EC50 Daphnia 1 | 216 mg/l (Exposure time: 96 h - Species: Daphnia magna) |
| LC50 fish 2 | 210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio) |

| Tetrasodium EDTA (64-02-8) | |
|---|---|
| LC50 fishes 1 | 41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 1 | 610 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| EC50 other aquatic organisms 1 | 1.01 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus) |
| LC50 fish 2 | 59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

### 12.2. Persistence and degradability

| SSR Shaft Cleaner | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| SSR Shaft Cleaner | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| **Sodium metasilicate (6834-92-0)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Class E - Corrosive Material |

| **Alcohols, C9-11, ethoxylated (68439-46-3)** |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

| **Tetrasodium EDTA (64-02-8)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| **Sodium carbonate, monohydrate (5968-11-6)** | |
|---|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects<br>Class E - Corrosive Material |

### 15.2. International regulations

| **Sodium metasilicate (6834-92-0)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **Alcohols, C9-11, ethoxylated (68439-46-3)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| **Tetrasodium EDTA (64-02-8)** |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

| **Sodium metasilicate (6834-92-0)** |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

| Tetrasodium EDTA (64-02-8) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute Tox. 4 (Oral) H302
Skin Corr. 1B H314
STOT SE 3 H335

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Xn; R22
C; R35
C; R34
Xi; R37

Full text of R-phrases: see section 16

**15.2.2. National regulations**

| Sodium metasilicate (6834-92-0) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS)<br>Listed on the Canadian Ingredient Disclosure List |

| Alcohols, C9-11, ethoxylated (68439-46-3) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

| Tetrasodium EDTA (64-02-8) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

## SECTION 16: Other information

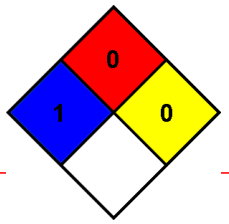
Other information : None.

Full text of H-phrases: see section 16:

| | |
|---|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Corr. 1B | skin corrosion/irritation Category 1B |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H335 | May cause respiratory irritation |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.



| | |
|---|---|
| NFPA reactivity | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |

**HMIS III Rating**

| | |
|---|---|
| Health | : 1 Slight Hazard - Irritation or minor reversible injury possible |
| Flammability | : 0 Minimal Hazard |
| Physical | : 0 Minimal Hazard |

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# String Shield

Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Trade name : String Shield

Other means of identification : Liquid Bow String Wax

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Liquid Bow String Wax

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

**WHMIS Classification**

### 2.2. Label elements

other hazards which do not result in classification : prolonged exposure. Inhalation may cause irritation, cough, short breathing. Prolonged or repeated contact with the skin may cause dermatitis. Liquid silicone based materials have lubricating properties that can substantially reduce or eliminate traction and may pose a slip hazard. Please use warning labels on consumer products where traction is essential for safety.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name : String Shield

| Name | Product identifier | % | GHS-US classification | WHMIS Classification |
|---|---|---|---|---|
| Poly(dimethylsiloxane) | (CAS No) 63148-62-9 | 98 - 100 | Not classified | |

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Vaporization is not expected at ambient temperatures.
At room temperature, exposure by inhalation is not expected to cause any adverse effects on health. If user operations generate dust or fumes, assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : Wipe off excess material; do not use force removing from skin. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water. If skin irritation occurs: Get medical advice/attention. Risk of thermal burns on contact with molten product. After contact with molten product, cool skin area rapidly with cold water. When using high-pressure equipment, injection of product can occur. If material is injected under the skin, seek medical attention immediately. Remove contaminated clothing.

First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. Special danger of slipping by leaking/spilling product. If user operation generates fumes. May cause irritation to the skin and eyes. May cause respiratory irritation. Pre-existing eye and respiratory disorders may be aggravated by exposure. May aggravate asthma and dermatitis.

Symptoms/injuries after inhalation : If user operation generates fumes. Fumes are irritating to the respiratory system.

Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation. Repeated exposure may cause skin dryness or cracking. Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation.

Symptoms/injuries after ingestion : Not applicable.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Sand. Water mist.

Unsuitable extinguishing media : Water spray. Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Avoid (reject) fire-fighting water to enter environment. Use water spray to cool unopened containers.

Protective equipment for firefighters : In case of fire: Wear self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Caution: this product can cause the floor to be slippery. This material will float on water. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, SiO2.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spills of this product present a serious slipping hazard. Control airborne concentrations below the exposure limits. Avoid inhalation of vapors. Wear suitable protective clothing and eye/face protection. This material will float on water. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels. Relevant water authorities should be notified of any large spillage to water course or drain. Material spilled on hard surface can present a serious slipping/falling hazard. Material spilled on hard surface can present a serious slipping/falling hazard.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel. Special danger of slipping by leaking/spilling product. Stop leak if safe to do so. Clean up even minor leaks or spills if possible without unnecessary risk.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Wear suitable protective clothing. Boots.

Emergency procedures : Ventilate area. Avoid generation of dust. When leaks or spills occur, only properly protected personnel should remain in the area. Stop leak if safe to do so. Special danger of slipping by leaking/spilling product.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Use appropriate container to avoid environmental contamination. This material and its container must be disposed of in a safe way, and as per local legislation. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Special danger of slipping by leaking/spilling product.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide adequate ventilation. Avoid breathing dust, mist or spray. Avoid inhalation of product. Avoid contact with skin and eyes. Avoid release to the environment. Wear recommended personal protective equipment.

Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.

Incompatible materials : Strong acid. Strong bases. Strong oxidizing agent.

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : Correctly labelled. Store in a closed container. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. Facilities: shower, eye shower.

Personal protective equipment : The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses with side-shields.

Skin and body protection : Long sleeved protective clothing, safety foot-wear. Wear personal protection equipment.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection : Wear heat resistant boots and protective clothing when handling material at elevated temperatures.

Environmental exposure controls : Avoid release to the environment.

Consumer exposure controls : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear

Colour : Clear, Colorless

odour : Odorless

Odour threshold : No data available

| | | |
|---|---|---|
| pH | : | 7 |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | -55 °C (-67 °F) |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | > 250 °C (> 482 °F) (ISO 2592)<br>> 150 °C (> 302 °F) (EN 22719) |
| Self-ignition temperature | : | approx. 450 °C (842 °F) (DIN 51794) |
| Decomposition temperature | : | > 250 °C ( > 482 °F) |
| Flammability (solid, gas) | : | No data available |
| Vapour pressure | : | < 0.13 hPa at 20 °C |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Density | : | 0.965 (Specific gravity) (25 °C (77 °F) ) |
| Solubility | : | Insoluble in water. |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | 50 mm²/s (25 °C (77 °F) ) (DIN 53018) |
| Viscosity, dynamic | : | 50 Pas (25 °C (77 °F) ) |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon oxides (CO, CO2). Silicon dioxide. Formation of small amounts of formaldehyde at temperatures above 150 °C (302 °F) occurs through oxidation.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified<br>pH: 7 |
| Serious eye damage/irritation | : | Not classified<br>pH: 7 |
| Respiratory or skin sensitization | : | Not classified |
| Germ cell mutagenicity | : | Not classified. Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified. Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | Not classified |
| Specific target organ toxicity (repeated exposure) | : | Not classified. Based on available data, the classification criteria are not met |

| | | |
|---|---|---|
| Aspiration hazard | : | Not classified. Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : | Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : | If user operation generates fumes. Fumes are irritating to the respiratory system. |
| Symptoms/injuries after skin contact | : | Frequent or prolonged contact with skin may cause dermal irritation. Repeated exposure may cause skin dryness or cracking. Risk of thermal burns on contact with molten product. |
| Symptoms/injuries after eye contact | : | Dust from this product may cause eyes irritation. |
| Symptoms/injuries after ingestion | : | Not applicable. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Lightning Lube | |
|---|---|
| Persistence and degradability | Biologically not degradable. Degradable to a certain extent in abiotic processes. Elimination by adsorption to activated sludge. |

### 12.3. Bioaccumulative potential

| Lightning Lube | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels. Insoluble in water. Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Additional information : This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment. In case of large spills the product may be hazardous to aquatic organisms due to possible formation of a film on the surface water which can diminish dissolved oxygen levels.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

### 15.2. International regulations

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

#### 15.2.2. National regulations

| Poly(dimethylsiloxane) (63148-62-9) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

## SECTION 16: Other information

**HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Tex-Tite Bow String Wax

Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/19 Version: 1.1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Product name. : Tex-Tite Bow String Wax

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Bowstring wax

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

**WHMIS Classification**

### 2.2. Label elements

**GHS-US labelling**

No labelling applicable

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Microcrystalline wax | (CAS No) 63231-60-7 | 32 - 50 | Not classified |
| Glycerides, C16-22 and C18-unsaturated | (CAS No) 68424-60-2 | 12 - 24 | Not classified |
| Paraffin waxes and Hydrocarbon waxes | (CAS No) 8002-74-2 | 8 - 16 | Not classified |
| Octylphenol ethoxylate | (CAS No) 9036-19-5 | 12 | Not classified |
| Stearic acid | (CAS No) 57-11-4 | 2 - 8 | Not classified |
| Tallow oil | (CAS No) 61789-97-7 | 2 - 8 | Not classified |
| White mineral oil, petroleum | (CAS No) 8042-47-5 | 4.7 | Asp. Tox. 1, H304 |
| Polyethylene glycol | (CAS No) 25322-68-3 | 0.4 | Not classified |

| Stearic acid (57-11-4) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Octylphenol ethoxylate (9036-19-5) | |
|---|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| White mineral oil, petroleum (8042-47-5) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Tallow oil (61789-97-7) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. Risk of thermal burns on contact with molten product. After contact with molten product, cool skin area rapidly with cold water. Burns caused by molten material must be treated clinically.

First-aid measures after inhalation : Vaporization is not expected at ambient temperatures.
. If user operations generate dust or fumes, . Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Keep eye wide open while rinsing. If eyelids are bonded closed release eyelashes with warm water by covering the eye with a wet pad. Do not force eyelids open. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. Vapors from molten wax may cause irritation and tearing. Risk of thermal burns on contact with molten product.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Precautionary measures fire : When heated, material emits irritating fumes.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. In case of fire: Wear self-contained breathing apparatus.

Other information : Material spilled on hard surface can present a serious slipping/falling hazard. When heated, material emits irritating fumes.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Keep away from sources of ignition. - No smoking. Wear protective clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Avoid any direct contact with the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Material spilled on hard surface can present a serious slipping/falling hazard.

Hygiene measures : Do not eat, drink or smoke when using this product. Take care for general good hygiene and housekeeping.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place. keep away from incompatible materials. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Storage area : Ensure adequate ventilation of the storage area.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | | |
|---|---|---|
| ACGIH | ACGIH TWA (mg/m³) | 2 mg/m³ |
| NIOSH | NIOSH REL (TWA) (mg/m3) | 2 mg/m³ |
| Alberta | OEL TWA (mg/m³) | 2 mg/m³ |
| British Columbia | OEL TWA (mg/m³) | 2 mg/m³ |
| Manitoba | OEL TWA (mg/m³) | 2 mg/m³ |
| New Brunswick | OEL TWA (mg/m³) | 2 mg/m³ |
| New Foundland & Labrador | OEL TWA (mg/m³) | 2 mg/m³ |
| Nova Scotia | OEL TWA (mg/m³) | 2 mg/m³ |
| Nunavut | OEL STEL (mg/m³) | 6 mg/m³ |
| Nunavut | OEL TWA (mg/m³) | 2 mg/m³ |
| Northwest Territories | OEL STEL (mg/m³) | 6 mg/m³ |
| Northwest Territories | OEL TWA (mg/m³) | 2 mg/m³ |
| Ontario | OEL TWA (mg/m³) | 2 mg/m³ |
| Prince Edward Island | OEL TWA (mg/m³) | 2 mg/m³ |
| Québec | VEMP (mg/m³) | 2 mg/m³ |
| Saskatchewan | OEL STEL (mg/m³) | 4 mg/m³ |
| Saskatchewan | OEL TWA (mg/m³) | 2 mg/m³ |
| Yukon | OEL STEL (mg/m³) | 6 mg/m³ |
| Yukon | OEL TWA (mg/m³) | 2 mg/m³ |

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. The following pictograms represent the minimum requirements for personal protective equipment.

Hand protection : Wear protective gloves. NBR (Nitrile rubber). neoprene/natural rubber. Breakthrough times and swelling properties of the material must be taken into consideration.

Eye protection : Chemical goggles or safety glasses. with side-shields.

Skin and body protection : Wear work clothes with long sleeves.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Appearance | : | wax. |
| Colour | : | white. |
| odour | : | characteristic. |
| Odour threshold | : | No data available |
| pH | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | > 176 °C (348.8 °F) |
| Self ignition temperature | : | Product is not self igniting |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | > 1 g/cm³ |
| Solubility | : | Water: Miscible |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases. Reducing agents. Oxidizing agents.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Microcrystalline wax (63231-60-7) | |
|---|---|
| LD50 oral rat | 10000 mg/kg |
| LD50 dermal rabbit | > 3600 mg/kg |
| ATE (oral) | 10000.000 mg/kg bodyweight |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | |
|---|---|
| LD50 oral rat | > 3750 mg/kg |
| LD50 dermal rabbit | > 3600 mg/kg |

| White mineral oil, petroleum (8042-47-5) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 5 mg/l/4h |

| Polyethylene glycol (25322-68-3) | |
|---|---|
| LD50 dermal rabbit | > 20 ml/kg |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified. Based on available data, the classification criteria are not met
Carcinogenicity : Not classified

Reproductive toxicity : Not classified. Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified. Based on available data, the classification criteria are not met

Aspiration hazard : Not classified. Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

| White mineral oil, petroleum (8042-47-5) | |
|---|---|
| LC50 fishes 1 | > 10000 mg/l 96 hours |
| EC50 Daphnia 1 | > 48 mg/l 48 hours |
| LC50 fish 2 | > 100 mg/l 96 hours |
| ErC50 (algae) | > 100 mg/l 72 hours |

| Polyethylene glycol (25322-68-3) | |
|---|---|
| LC50 fishes 1 | > 5000 mg/l (Exposure time: 24 h - Species: Carassius auratus) |

### 12.2. Persistence and degradability

| Tex-Tite Bow String Wax | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Tex-Tite Bow String Wax | |
|---|---|
| Bioaccumulative potential | Not established. |

| Microcrystalline wax (63231-60-7) | |
|---|---|
| Log Pow | > 6 |

| White mineral oil, petroleum (8042-47-5) | |
|---|---|
| Log Pow | > 6 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| Microcrystalline wax (63231-60-7) |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

| Stearic acid (57-11-4) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Glycerides, C16-22 and C18-unsaturated (68424-60-2) |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

| Octylphenol ethoxylate (9036-19-5) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| White mineral oil, petroleum (8042-47-5) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Polyethylene glycol (25322-68-3) |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

| Tallow oil (61789-97-7) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

### 15.2. International regulations

| Microcrystalline wax (63231-60-7) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Stearic acid (57-11-4) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Glycerides, C16-22 and C18-unsaturated (68424-60-2) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Octylphenol ethoxylate (9036-19-5) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| White mineral oil, petroleum (8042-47-5) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Polyethylene glycol (25322-68-3) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Tallow oil (61789-97-7) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

| Microcrystalline wax (63231-60-7) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.<br>Listed on European List of Notified Chemical Substances (ELINCS) |

| Stearic acid (57-11-4) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

| Glycerides, C16-22 and C18-unsaturated (68424-60-2) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

| White mineral oil, petroleum (8042-47-5) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

| Polyethylene glycol (25322-68-3) |
|---|
| Listed on the EU - No-Longer Polymers List (67/548/EEC) |

| Tallow oil (61789-97-7) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

**15.2.2. National regulations**

| Microcrystalline wax (63231-60-7) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

| Stearic acid (57-11-4) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS)<br>Listed on the Canadian Ingredient Disclosure List |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

| Glycerides, C16-22 and C18-unsaturated (68424-60-2) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC) |

| Octylphenol ethoxylate (9036-19-5) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS)<br>Pollutant Release and Transfer Register Law (PRTR Law)<br>Listed on the Canadian Ingredient Disclosure List |

| White mineral oil, petroleum (8042-47-5) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

| Polyethylene glycol (25322-68-3) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

| Tallow oil (61789-97-7) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

| | |
|---|---|
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| H304 | May be fatal if swallowed and enters airways |

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# Wind-check
# Air current finder
## Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 01/18/2019 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Trade name : Wind-check
Air current finder

Chemical name : Hydrous magnesium silicate

Formula : 3MgO.4SiO2.H2O

Synonyms : Talc, Soapstone, Steatite

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Air current Finder

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

**WHMIS Classification**

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

### 2.2. Label elements

other hazards which do not result in classification : prolonged exposure. Inhalation may cause irritation, cough, short breathing. Prolonged or repeated contact with the skin may cause dermatitis.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

Name : Wind-check
Air current finder

| Name | Product identifier | % | GHS-US classification | WHMIS Classification |
|---|---|---|---|---|
| Talc | (CAS No) 14807-96-6 | > 98 | Not classified | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
| Magnesium carbonate | (CAS No) 546-93-0 | < 2 | Not classified | Uncontrolled product according to WHMIS classification criteria |
| Chlorite-group minerals | (CAS No) 1318-59-8 | < 1 | Not classified | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
| Dolomite (CaMg(CO3)2) | (CAS No) 16389-88-1 | < 1 | Not classified | Uncontrolled product according to WHMIS classification criteria |

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. (for at least 15 minutes). Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use. If user operations generate dust or fumes, . May cause respiratory irritation. Pre-existing eye and respiratory disorders may be aggravated by exposure. May aggravate asthma and dermatitis. May cause irritation to the skin and eyes.

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : Dust from this product may cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Dust from this product may cause eyes irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways. May cause irritation in mouth, gullet and stomach.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Control airborne concentrations below the exposure limits. Avoid inhalation of product. Spilled material may present a slipping hazard. Wear suitable protective clothing and eye/face protection.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing powdered dust. Wear suitable protective clothing.

Emergency procedures : Ventilate area. Avoid raising powdered materials into airborne dust.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Wet clean or vacuum up solids. Store away from other materials. Avoid raising powdered materials into airborne dust.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide adequate ventilation. Avoid raising powdered materials into airborne dust. avoid breathing dust. Avoid inhalation of product.

Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.

Incompatible materials : Strong acid. Strong bases. Strong oxidizing agent.

Storage area : Store in dry, cool, well-ventilated area.

Special rules on packaging : correctly labelled. Store in a closed container. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

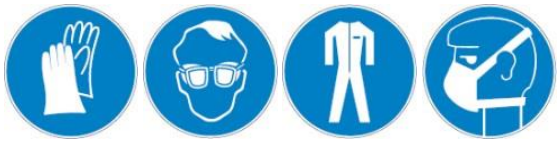
### 8.1. Control parameters

| **Magnesium carbonate (546-93-0)** | | |
|---|---|---|
| OSHA | OSHA PEL (TWA) (mg/m3) | 5 mg/m³ |
| NIOSH | NIOSH REL (TWA) (mg/m3) | 5 mg/m³ |
| British Columbia | OEL TWA (mg/m³) | 3 mg/m³ |
| New Brunswick | OEL TWA (mg/m³) | 10 mg/m³ |
| Ontario | OEL TWA (mg/m³) | 10 mg/m³ (containing no Asbestos and <1% Crystalline silica) |
| Québec | VEMP (mg/m³) | 10 mg/m³ (containing no Asbestos and <1% Crystalline silica) |
| Saskatchewan | OEL STEL (mg/m³) | 20 mg/m³ |
| Saskatchewan | OEL TWA (mg/m³) | 10 mg/m³ |

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Control airborne concentrations below the exposure limits. A washing facility/water for eye and skin cleaning purposes should be present.

Personal protective equipment : The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing. Dust formation: dust mask.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. with side-shields.

Skin and body protection : safety foot-wear. Wear personal protection equipment.

Respiratory protection : Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Fluffy powder.

| | | |
|---|---|---|
| Colour | : | white. Off white. Light grey. |
| odour | : | Odorless. |
| Odour threshold | : | No data available |
| pH | : | 9 - 9.5 (10% slurry in water) |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | > 1300 °C (> 2372 °F) |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Self ignition temperature | : | No data available |
| Decomposition temperature | : | > 1000 °C > 1832 °F |
| Flammability (solid, gas) | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | 2.7 - 2.8 g/cm³ |
| Solubility | : | Soluble in. Hydrofluoric acid. Negligible in water. |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Silicon dioxide. Magnesium oxide fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity | : | Not classified |
| Skin corrosion/irritation | : | Not classified<br>pH: 9 - 9.5 (10% slurry in water) |
| Serious eye damage/irritation | : | Not classified<br>pH: 9 - 9.5 (10% slurry in water) |
| Respiratory or skin sensitisation | : | Not classified |
| Germ cell mutagenicity | : | Not classified. Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified |
| Reproductive toxicity | : | Not classified. Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : | Not classified |

| | | |
|---|---|---|
| Specific target organ toxicity (repeated exposure) | : | Not classified. Based on available data, the classification criteria are not met |
| Aspiration hazard | : | Not classified. Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : | Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : | Inhalation of dust may cause irritation of the respiratory system. |
| Symptoms/injuries after skin contact | : | Dust from this product may cause skin irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/injuries after eye contact | : | Dust from this product may cause eyes irritation. |
| Symptoms/injuries after ingestion | : | May be harmful if swallowed and enters airways. May cause irritation in mouth, gullet and stomach. |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| Wind-check Air current finder | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| Wind-check Air current finder | |
|---|---|
| Bioaccumulative potential | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : No supplementary information available.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| Wind-check<br>Air current finder | |
|---|---|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

| Magnesium carbonate (546-93-0) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

### 15.2. International regulations

| Magnesium carbonate (546-93-0) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**EU-Regulations**

| Magnesium carbonate (546-93-0) |
|---|
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. |

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

**15.2.2. National regulations**

| Magnesium carbonate (546-93-0) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

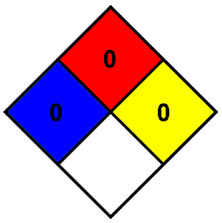
## SECTION 16: Other information

Other information : The ingredients and composition of Wind-Check are proprietary to The Bohning Co. Ltd and as a trade secret, their disclosure is withheld per CFR 1910:1200 (h). Medical personnel must contact Dynex directly if information is needed per written request in accordance to CFR 1910:1200 (h).

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.




**HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*

# X-CCELERATOR WAX

Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products

Date of issue: 05/22/2013 Revision: 01/18/2019 Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture

Trade name : X-CCELERATOR WAX

Other means of identification : Wax

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Bowstring wax

### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

Not classified

**WHMIS Classification**

### 2.2. Label elements

other hazards which do not result in classification : If user operations generate dust or fumes, . dust or fumes may cause irritation of the eyes, skin and respiratory tract.
. Prolonged or repeated contact with the skin may cause dermatitis. Provide adequate protection in areas where molten material is possible to emerge. Vapors from molten wax may cause irritation and tearing.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---|---|---|
| Petrolatum | (CAS No) 8009-03-8 | 45 - 68 | Not classified |
| Paraffin waxes and Hydrocarbon waxes | (CAS No) 8002-74-2 | 25 - 45 | Not classified |
| Microcrystalline wax | (CAS No) 63231-60-7 | 6 - 15 | Not classified |
| Stearic acid | (CAS No) 57-11-4 | 1 - 5 | Not classified |

| Stearic acid (57-11-4) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Petrolatum (8009-03-8) | |
|---|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Risk of thermal burns on contact with molten product. After contact with molten product, cool skin area rapidly with cold water.

First-aid measures after eye contact : If easy to do, remove contact lenses, if worn. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : If user operations generate dust or fumes, . Can occur: eye irritation, irritation of mucous membranes and skin irritation. Irritating to the nose, throat, and respiratory tract. prolonged exposure. May cause cancer.

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : If user operations generate dust or fumes, . Repeated exposure may cause skin dryness or cracking. Causes skin irritation.

Symptoms/injuries after eye contact : If user operations generate dust or fumes, . Causes eye irritation. redness, itching, tears. Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : Harmful if swallowed. May cause irritation in mouth, gullet and stomach.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand. For large fires use foam or water fog.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. In the event of a fire, wear a self-contained breathing apparatus (SCBA).

Other information : Fumes may be irritating.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Control airborne concentrations below the exposure limits. Avoid inhalation of product. Spilled material may present a slipping hazard. Wear suitable protective clothing and eye/face protection. Vapors from molten wax may cause irritation and tearing. Provide adequate protection in areas where molten material is possible to emerge.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing powdered dust. Wear suitable protective clothing.

Emergency procedures : Ventilate area. Avoid raising powdered materials into airborne dust.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain and/or absorb spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. On land, sweep or shovel into suitable containers. Scoop absorbed substance into closing containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide adequate ventilation. Avoid raising powdered materials into airborne dust. Avoid inhalation of product. Avoid contact with the skin and the eyes. If user operations generate dust or fumes, . Avoid breathing (dust, vapor, mist, gas).

Hygiene measures : Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation. Remove all sources of ignition.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.

Incompatible materials : Strong acid. Strong bases. Strong oxidizing agent.

Storage area : Store in dry, cool, well-ventilated area. Remove all sources of ignition.

Special rules on packaging : correctly labelled. Store in a closed container. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | | |
|---|---|---|
| ACGIH | ACGIH TWA (mg/m³) | 2 mg/m³ |
| NIOSH | NIOSH REL (TWA) (mg/m3) | 2 mg/m³ |
| Alberta | OEL TWA (mg/m³) | 2 mg/m³ |
| British Columbia | OEL TWA (mg/m³) | 2 mg/m³ |
| Manitoba | OEL TWA (mg/m³) | 2 mg/m³ |
| New Brunswick | OEL TWA (mg/m³) | 2 mg/m³ |
| New Foundland & Labrador | OEL TWA (mg/m³) | 2 mg/m³ |
| Nova Scotia | OEL TWA (mg/m³) | 2 mg/m³ |
| Nunavut | OEL STEL (mg/m³) | 6 mg/m³ |
| Nunavut | OEL TWA (mg/m³) | 2 mg/m³ |
| Northwest Territories | OEL STEL (mg/m³) | 6 mg/m³ |
| Northwest Territories | OEL TWA (mg/m³) | 2 mg/m³ |
| Ontario | OEL TWA (mg/m³) | 2 mg/m³ |
| Prince Edward Island | OEL TWA (mg/m³) | 2 mg/m³ |
| Québec | VEMP (mg/m³) | 2 mg/m³ |
| Saskatchewan | OEL STEL (mg/m³) | 4 mg/m³ |
| Saskatchewan | OEL TWA (mg/m³) | 2 mg/m³ |
| Yukon | OEL STEL (mg/m³) | 6 mg/m³ |
| Yukon | OEL TWA (mg/m³) | 2 mg/m³ |

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. Facilities: shower, eye shower.

| | | |
|---|---|---|
| Personal protective equipment | : | The following pictograms represent the minimum requirements for personal protective equipment. Avoid all unnecessary exposure. Gloves. Protective goggles. Protective clothing. Dust formation: dust mask. |

| | | |
|---|---|---|
| Hand protection | : | Nitrile-rubber protective gloves. |
| Eye protection | : | Chemical goggles or safety glasses. with side-shields. Face-shield. |
| Skin and body protection | : | Long sleeved protective clothing. Rubber apron, boots. Wear personal protection equipment. |
| Respiratory protection | : | Wear appropriate mask. Use appropriate respiratory protection. Wear suitable respiratory equipment. |
| Environmental exposure controls | : | Avoid release to the environment. |
| Other information | : | Do not eat, drink or smoke during use. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Solid |
| Appearance | : | white. wax. |
| Colour | : | white. |
| odour | : | Light odour of petroleum. |
| Odour threshold | : | No data available |
| pH | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | 51.7 - 57.2 °C (125.06 - 134.98 °F) |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Self ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Density | : | < 1 Specific gravity (H20=1): 0.885/0.984 |
| Solubility | : | Miscible. |
| Log Pow | : | No data available |
| Log Kow | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

### 10.6. Hazardous decomposition products

fume. Silicon dioxide. Carbon monoxide. Carbon dioxide (CO2).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Microcrystalline wax (63231-60-7) | |
|---|---|
| LD50 oral rat | 10000 mg/kg |
| LD50 dermal rabbit | > 3600 mg/kg |
| ATE (oral) | 10000.000 mg/kg bodyweight |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | |
|---|---|
| LD50 oral rat | > 3750 mg/kg |
| LD50 dermal rabbit | > 3600 mg/kg |

| Petrolatum (8009-03-8) | |
|---|---|
| LD50 dermal rabbit | 3600 mg/kg |
| ATE (dermal) | 3600.000 mg/kg bodyweight |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classifiedBased on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classifiedBased on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classifiedBased on available data, the classification criteria are not met

Aspiration hazard : Not classifiedBased on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/injuries after skin contact : If user operations generate dust or fumes, . Repeated exposure may cause skin dryness or cracking. Causes skin irritation.

Symptoms/injuries after eye contact : If user operations generate dust or fumes, . Causes eye irritation. redness, itching, tears. Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : Harmful if swallowed. May cause irritation in mouth, gullet and stomach.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| X-CCELERATOR WAX | |
|---|---|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| X-CCELERATOR WAX | |
|---|---|
| Bioaccumulative potential | Not established. |

| Microcrystalline wax (63231-60-7) | |
|---|---|
| Log Pow | > 6 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Additional information : Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous waste be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method. This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

### 14.2 Additional information

Other information : Overseas:
Packaging Group: PG III
Domestic Shipments: Consumer Commidity, reclass to ORM-D. All components of this product are included on the TSCA Chemical inventory in compliance with the Toxic Substances Control Act, 15 U.S.C. 2601 et. Seq.

**Overland transport**

No additional information available

**Transport by sea**

No additional information available

**Air transport**

No additional information available

## SECTION 15: Regulatory information

**CANADA**

| **Stearic acid (57-11-4)** | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| **Microcrystalline wax (63231-60-7)** |
|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. |

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Petrolatum (8009-03-8) | |
|---|---|
| Listed on the Canadian DSL (Domestic Sustances List) inventory. | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

### 15.2. International regulations

**Stearic acid (57-11-4)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Microcrystalline wax (63231-60-7)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Paraffin waxes and Hydrocarbon waxes (8002-74-2)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**Petrolatum (8009-03-8)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### EU-Regulations

**Stearic acid (57-11-4)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

**Microcrystalline wax (63231-60-7)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.
Listed on European List of Notified Chemical Substances (ELINCS)

**Paraffin waxes and Hydrocarbon waxes (8002-74-2)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

**Petrolatum (8009-03-8)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.1; R45

Full text of R-phrases: see section 16

#### 15.2.2. National regulations

**Stearic acid (57-11-4)**
Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on the Canadian Ingredient Disclosure List

**Microcrystalline wax (63231-60-7)**
Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

| Paraffin waxes and Hydrocarbon waxes (8002-74-2) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

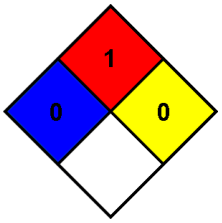
| Petrolatum (8009-03-8) |
|---|
| Listed on the AICS (the Australian Inventory of Chemical Substances)<br>Listed on Inventory of Existing Chemical Substances (IECSC)<br>Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.<br>Listed on the Korean ECL (Existing Chemical List) inventory.<br>Listed on New Zealand - Inventory of Chemicals (NZIoC)<br>Listed on Inventory of Chemicals and Chemical Substances (PICCS) |

## SECTION 16: Other information

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.




**HMIS III Rating**

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

SDS Canada (GHS)

*The conditions of handling, storage, use and disposal of the product covered by this SDS are beyond the control and knowledge of Bohning Archery. Therefore we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This SDS meets the requirements specified in 29 CFR 1910.1200. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product*