



## Safety Data Sheet

### Section 1: Identification

#### Product identifier

- Product Name** • Super Black Touch Up Pen Gloss  
**Product Code** • 15111

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

- Recommended use** • Please provide product use

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

- Manufacturer** • Birchwood Casey, LLC

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

- OSHA HCS 2012**
- Flammable Liquids 3  
Aspiration 1  
Eye Irritation 2  
Acute Toxicity Inhalation 4  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation  
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects  
Carcinogenicity 2  
Reproductive Toxicity 1B  
Specific Target Organ Toxicity Repeated Exposure 1

#### Label elements

OSHA HCS 2012

**DANGER**



- Hazard statements**
- Flammable liquid and vapour
  - May be fatal if swallowed and enters airways
  - Causes serious eye irritation
  - Harmful if inhaled
  - May cause respiratory irritation
  - May cause drowsiness or dizziness
  - Suspected of causing cancer.
  - May damage fertility or the unborn child.
  - Causes damage to organs - Lungs through prolonged or repeated exposure

**Precautionary statements**

- Prevention**
- Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  - Keep container tightly closed.
  - Ground and/or bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not breathe mist/vapours/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- In case of fire: Use appropriate media for extinction.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Call a POISON CENTER or doctor/physician if you feel unwell.
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF IN EYES: 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.
  - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - Do NOT induce vomiting.
  - IF exposed or concerned: Get medical advice/attention.
  - Get medical advice/attention if you feel unwell.
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.
  - Keep cool.
  - Store locked up.
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information**
- 5 percent of this product consists of an ingredient of unknown toxicity.

**Other hazards**

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

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**Canada**

According to: WHMIS

**Classification of the substance or mixture**

- WHMIS**
- Combustible Liquids - B3
  - Other Toxic Effects - D2A
  - Other Toxic Effects - D2B

**Label elements**

**WHMIS**



- Combustible Liquids - B3
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

## Other hazards

### WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Ligroine	CAS:8032-32-4	35% TO 40%	Inhalation-Rat LC50 • 3400 ppm 4 Hour(s)	OSHA HCS 2012: Eye Irrit. 2; STOT SE 3: Narc.; Asp. Tox. 1	NDA
Solvent naphtha (petroleum), medium aliph.	CAS:64742-88-7	20% TO 25%	NDA	OSHA HCS 2012: Flam. Liq. 3; STOT SE 3: Resp. Irrit. & Narc.; Asp. Tox. 1; Eye Irrit. 2	NDA
Xylene	CAS:1330-20-7	1% TO 5%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (inhl); STOT SE 3: Resp. Irrit. & Narc.	NDA
Carbon Black	CAS:1333-86-4	1% TO 5%	Ingestion/Oral-Rat LD50 • >15400 mg/kg Skin-Rabbit LD50 • >3 g/kg	OSHA HCS 2012: Carc. 2; STOT RE 1 (Lungs, Inhl); Comb. Dust	NDA
Ethylbenzene	CAS:100-41-4	< 1%	Skin-Rabbit LD50 • 17800 µL/kg Ingestion/Oral-Rat LD50 • 3500 mg/kg Inhalation-Rat LC50 • 55000 mg/m <sup>3</sup> 2 Hour(s)	OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2, Repr. 2.; Carc. 2; STOT SE 3: Resp. Irrit. & Narc.	NDA

## Section 4: First-Aid Measures

### Description of first aid measures

#### Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

#### Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. If irritation develops and persists, get medical attention.

- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Do NOT induce vomiting. Obtain medical attention immediately if ingested.

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

- Refer to Section 11 - Toxicological Information.

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

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Fire-Fighting Measures

### Extinguishing media

- Suitable Extinguishing Media**
- Water spray, carbon dioxide, dry chemical, foam.

- Unsuitable Extinguishing Media**
- Water may be unsuitable as an extinguishing medium, but helpful in keeping adjacent containers cool.

### Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Containers may explode when heated.  
Vapor explosion hazard indoors, outdoors or in sewers.  
HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.  
Many liquids are lighter than water.  
Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).  
Runoff to sewer may create fire or explosion hazard.  
Vapors may form explosive mixtures with air.  
Vapors may travel to source of ignition and flash back.

- Hazardous Combustion Products**
- No data available

### Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.  
Wear positive pressure self-contained breathing apparatus (SCBA).  
Move containers from fire area if you can do it without risk.  
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

- Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

### Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

- Containment/Clean-up**
- Stop leak if you can do it without risk.

**Measures**

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Use clean non-sparking tools to collect absorbed material.

A vapor suppressing foam may be used to reduce vapors.

All equipment used when handling the product must be grounded.

LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**Section 7 - Handling and Storage****Precautions for safe handling****Handling**

- Keep away from heat and ignition sources – No Smoking. All equipment used when handling the product must be grounded. Take precautionary measures against static charges. Empty containers may still have product residue and flammable vapors. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours, spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

**Conditions for safe storage, including any incompatibilities****Storage**

- Keep away from sources of ignition – No Smoking. Store in a cool, dry, well-ventilated place. Store in a tightly closed container.

**Section 8 - Exposure Controls/Personal Protection****Control parameters**

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	Germany DFG
Carbon Black (1333-86-4)	STELs	Not established	Not established	Not established	8 mg/m <sup>3</sup> STEL (total dust)	Not established
	TWAs	3 mg/m <sup>3</sup> TWA (inhalable fraction)	3 mg/m <sup>3</sup> TWA (inhalable)	3.5 mg/m <sup>3</sup> TWAEV	4 mg/m <sup>3</sup> TWA (total dust)	Not established
Ethylbenzene (100-41-4)	STELs	Not established	Not established	125 ppm STEV; 543 mg/m <sup>3</sup> STEV	150 mg/m <sup>3</sup> STEL	Not established
	TWAs	20 ppm TWA	20 ppm TWA	100 ppm TWAEV; 434 mg/m <sup>3</sup> TWAEV	100 mg/m <sup>3</sup> TWA	Not established
	Ceilings	Not established	Not established	Not established	Not established	40 ppm Peak; 176 mg/m <sup>3</sup> Peak
	MAKs	Not established	Not established	Not established	Not established	20 ppm TWA MAK; 88 mg/m <sup>3</sup> TWA MAK
Xylene (1330-20-7)	STELs	150 ppm STEL	150 ppm STEL	150 ppm STEV; 651 mg/m <sup>3</sup> STEV	100 mg/m <sup>3</sup> STEL	Not established
	TWAs	100 ppm TWA	100 ppm TWA	100 ppm TWAEV; 434 mg/m <sup>3</sup> TWAEV	50 mg/m <sup>3</sup> TWA	Not established
	Ceilings	Not established	Not established	Not established	Not established	200 ppm Peak (all isomers); 880 mg/m <sup>3</sup> Peak (all isomers)
	MAKs	Not established	Not established	Not established	Not established	100 ppm TWA MAK (all isomers); 440 mg/m <sup>3</sup> TWA MAK (all isomers)
Ligroine (8032-32-4)	TWAs	Not established	Not established	300 ppm TWAEV; 1370 mg/m <sup>3</sup> TWAEV	Not established	Not established

Exposure Limits/Guidelines (Con't.)				
	Result	Germany TRGS	NIOSH	OSHA
Carbon Black (1333-86-4)	TWAs	Not established	3.5 mg/m <sup>3</sup> TWA; 0.1 mg/m <sup>3</sup> TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)	3.5 mg/m <sup>3</sup> TWA
Ethylbenzene (100-41-4)	TWAs	20 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 88 mg/m <sup>3</sup> TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	100 ppm TWA; 435 mg/m <sup>3</sup> TWA	100 ppm TWA; 435 mg/m <sup>3</sup> TWA
	STELs	Not established	125 ppm STEL; 545 mg/m <sup>3</sup> STEL	Not established
Xylene (1330-20-7)	TWAs	100 ppm TWA AGW (all isomers, exposure factor 2); 440 mg/m <sup>3</sup> TWA AGW (all isomers, exposure factor 2)	Not established	100 ppm TWA; 435 mg/m <sup>3</sup> TWA
Ligroine (8032-32-4)	Ceilings	Not established	1800 mg/m <sup>3</sup> Ceiling (15 min)	Not established
	TWAs	Not established	350 mg/m <sup>3</sup> TWA	Not established

## Exposure Control Notations

### ACGIH

- Xylene (1330-20-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Ethylbenzene (100-41-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)
- Carbon Black (1333-86-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

### Germany TRGS

- Xylene (1330-20-7): **Skin:** (skin notation (all isomers))
- Ethylbenzene (100-41-4): **Skin:** (skin notation)

### Germany DFG

- Xylene (1330-20-7): **Pregnancy:** (classification not yet possible (all isomers)) | **Skin:** (skin notation (all isomers))
- Ethylbenzene (100-41-4): **Carcinogens:** (Category 4 (no significant contribution to human cancer)) | **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)
- Carbon Black (1333-86-4): **Carcinogens:** (Category 3B (could be carcinogenic for man, inhalable fraction))

## Exposure Limits Supplemental

### ACGIH

- Xylene (1330-20-7): **BEIs:** (1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation)
- Ethylbenzene (100-41-4): **BEIs:** (0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative); Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)) | **TLV Basis - Critical Effects:** (upper respiratory tract irritation; kidney damage (nephropathy); cochlear impairment) | **Notice of Intended Changes (BEIs):** (0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of Mandelic and Phenylglyoxylic acids (nonspecific))

•Carbon Black (1333-86-4): **TLV Basis - Critical Effects:** (bronchitis)

**Exposure controls**

**Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

**Personal Protective Equipment**

**Respiratory**

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face**

- Wear safety goggles.

**Skin/Body**

- Wear appropriate gloves.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

BEI = Biological Exposure Indices

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

STEL = Short Term Exposure Limits are based on 15-minute exposures

STEV = Short Term Exposure Value

**Section 9 - Physical and Chemical Properties**

**Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Liquid	Appearance/Description	Black liquid with a strong solvent odor.
Color	Black	Odor	Solvent
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	No data available	Melting Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.8559	Density	6.93 to 7.33 lbs/gal
Water Solubility	No data available	Viscosity	No data available
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	4.5968 lbs/gal
Volatiles (Wt.)	62.49 to 66.49 %	Volatiles (Vol.)	69.24 to 73.24 %
<b>Flammability</b>			
Flash Point	71 to 75 F(21.6667 to 23.8889 C) STCC (Seta Test/Seta Flash Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not relevant.		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

**Section 10: Stability and Reactivity**

**Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- Avoid high temperatures and ignition sources.

**Incompatible materials**

- Strong oxidizers.

**Hazardous decomposition products**

- Carbon dioxide, Carbon monoxide, and unidentified organic compounds may be formed during combustion.

**Section 11 - Toxicological Information**

**Information on toxicological effects**

Components		
Xylene (1% TO 5%)	1330-20-7	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 4300 mg/kg; <i>Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Skin-Rabbit LD50 • &gt;1700 mg/kg;</p> <p><b>Irritation:</b> Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation;</p> <p><b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 28 g/kg 14 Day(s)-Continuous; <i>Related to Chronic Data:Death in the Other Multiple Dose data type field;</i> Inhalation-Rat TCLo • 1600 ppm 20 Hour(s) 7 Day(s)-Intermittent;</p> <p><i>Behavioral:General anesthetic; Blood:Changes in erythrocyte (RBC) count; Related to Chronic Data:Death in the Other Multiple Dose data type field;</i> Inhalation-Rat TCLo • 15 mg/m<sup>3</sup> 24 Hour(s) 85 Day(s)-Continuous; <i>Brain and Coverings:Recordings from specific areas of CNS; Blood:Changes in leucocyte (WBC) count;</i> Inhalation-Rat TCLo • 300 ppm 6 Hour(s) 18 Week(s)-Intermittent; <i>Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i></p> <p><i>Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Hepatic microsomal mixed oxidase (dealkylation, hydroxylation, etc.);</i> Skin-Rat TDLo • 960 µL/kg 4 Day(s)-Intermittent; <i>Skin and Appendages:After topical exposure:Primary irritation; Biochemical:Metabolism (intermediary):Effect on inflammation or mediation of inflammation;</i></p> <p><b>Reproductive:</b> Inhalation-Rat TCLo • 250 mg/m<sup>3</sup> 24 Hour(s)(7-15D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system;</i> Inhalation-Rat TCLo • 50 mg/m<sup>3</sup> 6 Hour(s)(1-21D preg); <i>Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue);</i> Inhalation-Rat TDLo • 200 ppm 6 Hour(s)(4-20D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Effects on Newborn:Behavioral</i></p>
Ethylbenzene (< 1%)	100-41-4	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3500 mg/kg; Inhalation-Rat LC50 • 55000 mg/m<sup>3</sup> 2 Hour(s); Skin-Rabbit LD50 • 17800 µL/kg;</p> <p><b>Irritation:</b> Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 15 mg 24 Hour(s)-Open • Mild irritation;</p> <p><b>Multi-dose Toxicity:</b> Inhalation-Rat TCLo • 782 ppm 6 Hour(s) 4 Week(s)-Intermittent; <i>Liver:Changes in liver weight; Blood:Changes in leucocyte (WBC) count; Blood:Changes in platelet count;</i> Inhalation-Rat TCLo • 550 ppm 8 Hour(s) 5 Day(s)-Intermittent; <i>Sense Organs and Special Senses:Ear:Change in acuity; Sense Organs and Special Senses:Ear:Changes in cochlear structure or function;</i> Inhalation-Rat TDLo • 200 ppm 13 Week(s)-Intermittent; <i>Sense Organs and Special Senses:Ear:Changes in cochlear structure or function;</i></p> <p><b>Reproductive:</b> Inhalation-Rat TCLo • 1000 ppm (6H/6-20D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities; Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system;</i></p>



		<b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLo • 750 ppm 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Kidney, Ureter, and Bladder.Tumors</i>
Ligroine (35% TO 40%)	8032-32-4	<b>Acute Toxicity:</b> Inhalation-Rat LC50 • 3400 ppm 4 Hour(s); <i>Behavioral:Convulsions or effect on seizure threshold; Behavioral:Muscle weakness;</i> <b>Irritation:</b> Eye-Human • 880 ppm 15 Minute(s); <b>Reproductive:</b> Inhalation-Rat TCLo • 300 mg/m <sup>3</sup> 4 Hour(s)(1-19D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Effects on Newborn:Behavioral</i>
Carbon Black (1% TO 5%)	1333-86-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >15400 mg/kg; <i>Behavioral:Somnolence (general depressed activity);</i> Skin-Rabbit LD50 • >3 g/kg; <b>Mutagen:</b> DNA adduct • Inhalation-Mouse • 6200 µg/m <sup>3</sup> 16 Hour(s) 12 Week(s)-Intermittent; DNA damage • Inhalation-Rat • 50 µg/L 13 Week(s)-Intermittent; DNA damage • Inhalation-Rat • 50 g/L 13 Week(s); <b>Tumorigen / Carcinogen:</b> Inhalation-Rat TCLo • 11600 µg/m <sup>3</sup> 18 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors</i>

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Inhalation 4 - ATEmix(inhl) = 6784.95 ppm
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 2
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	OSHA HCS 2012 • Toxic to Reproduction 1B
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2

## Potential Health Effects

### Inhalation

- Acute (Immediate)**
  - Harmful if inhaled. May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- Chronic (Delayed)**
  - No data available.

### Skin

- Acute (Immediate)**
  - May cause mild irritation.
- Chronic (Delayed)**
  - No data available.

### Eye

- Acute (Immediate)**
  - Causes serious eye irritation.
- Chronic (Delayed)**
  - No data available.

### Ingestion

- Acute (Immediate)**
  - Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.
- Chronic (Delayed)**
  - No data available.

### Other

- Chronic (Delayed)**
  - Causes damage to Lungs through prolonged or repeated exposure. Most reports describe the effect of carbon black on the lung of human's certain changes which are

typical for pneumoconiosis and changes that are suspected to become pneumoconiosis in the future.

- Repeated and prolonged exposure may cause cancer.

**Carcinogenic Effects**

Carcinogenic Effects		
	CAS	IARC
Carbon Black	1333-86-4	Group 2B-Possible Carcinogen
Ethylbenzene	100-41-4	Group 2B-Possible Carcinogen

**Reproductive Effects**

- Animal tests for components have shown adverse reproductive effects.

**Key to abbreviations**

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

**Section 12 - Ecological Information**

**Toxicity**

- Material data lacking.

**Persistence and degradability**

- Material data lacking.

**Bioaccumulative potential**

- Material data lacking.

**Mobility in Soil**

- Material data lacking.

**Other adverse effects**

- No studies have been found.

**Section 13 - Disposal Considerations**

**Waste treatment methods**

**Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN1263	Paint	3	III	NDA
TDG	UN1263	PAINT	3	III	Potential Marine Pollutant
IATA/ICAO	UN1263	Paint	3	III	NDA

**Special precautions for user**

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

## Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, Fire

State Right To Know				
Component	CAS	MA	NJ	PA
Carbon Black	1333-86-4	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	Yes	Yes
Ligroine	8032-32-4	No	Yes	Yes
Solvent naphtha (petroleum), medium aliph.	64742-88-7	No	Yes	No
Xylene	1330-20-7	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Carbon Black	1333-86-4	Yes	No	Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes	No	Yes	Yes	No
Ligroine	8032-32-4	Yes	No	Yes	Yes	No
Solvent naphtha (petroleum), medium aliph.	64742-88-7	Yes	No	Yes	Yes	No
Xylene	1330-20-7	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Carbon Black	1333-86-4	Yes
Ethylbenzene	100-41-4	Yes
Ligroine	8032-32-4	Yes
Solvent naphtha (petroleum), medium aliph.	64742-88-7	Yes
Xylene	1330-20-7	Yes

## Canada

### Labor

#### Canada - WHMIS - Classifications of Substances

• Carbon Black	1333-86-4	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Carbon Black, non-respirable on Health Canada's WHMIS Division website.)
• Ethylbenzene	100-41-4	B2, D2A, D2B
• Xylene	1330-20-7	B2, D2A, D2B

• Ligroine	8032-32-4	B2
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	B3 (petroleum, C9-12)

**Canada - WHMIS - Ingredient Disclosure List**

• Carbon Black	1333-86-4	1 %
• Ethylbenzene	100-41-4	0.1 %
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	1 %
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**Environment**

**Canada - CEPA - Priority Substances List**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Priority Substance List 1 (substance not considered toxic)
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**Europe**

**Other**

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	F; R11 Xn; R20
• Xylene	1330-20-7	R10 Xn; R20/21 Xi; R38
• Ligroine	8032-32-4	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Xn; R65

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	12.5%≤C: Xn; R:20/21
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	F Xn R:11-20 S:(2)-16-24/25-29
• Xylene	1330-20-7	Xn R:10-20/21-38 S:(2)-25
• Ligroine	8032-32-4	T R:45-46-65 S:53-45
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Xn R:65 S:(2)-23-24-62

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	C
• Ligroine	8032-32-4	P
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases**

• Carbon Black	1333-86-4	Not Listed
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• Ethylbenzene	100-41-4	S:(2)-16-24/25-29
• Xylene	1330-20-7	S:(2)-25
• Ligroine	8032-32-4	S:53-45
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	S:(2)-23-24-62

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

### Environment

#### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	(listed under Ethyl benzene)
• Xylene	1330-20-7	(isomers and mixtures)
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

#### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

#### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Carbon Black	1333-86-4	Not Listed
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• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	0.1 % de minimis concentration
• Xylene	1330-20-7	1.0 % de minimis concentration
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Included in waste stream: F039
• Xylene	1330-20-7	Included in waste stream: F039
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	
• Xylene	1330-20-7	
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	
• Xylene	1330-20-7	
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	0.057 mg/L (wastewater); 10 mg/kg (nonwastewater)
• Xylene	1330-20-7	0.32 mg/L (wastewater); 30 mg/kg (nonwastewater)
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring**

• Carbon Black	1333-86-4	Not Listed
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• Ethylbenzene	100-41-4	
• Xylene	1330-20-7	(total)
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	waste number U239 (Ignitable waste)
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

## United States - California

### Environment

**U.S. - California - Proposition 65 - Carcinogens List**

• Carbon Black	1333-86-4	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)
• Ethylbenzene	100-41-4	carcinogen, initial date 6/11/04
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

## United States - Pennsylvania

### Labor

#### U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	
• Xylene	1330-20-7	
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

#### U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Carbon Black	1333-86-4	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Xylene	1330-20-7	Not Listed
• Ligroine	8032-32-4	Not Listed
• Solvent naphtha (petroleum), medium aliph.	64742-88-7	Not Listed

## Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer.

## Section 16 - Other Information

### Last Revision Date

- 05/March/2015

### Preparation Date

- 05/March/2015

### Disclaimer/Statement of Liability

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### Key to abbreviations

NDA = No data available