

SAFETY DATA SHEET (GHS)

NuTone®

Date Issued : 12/9/2013

MSDS No : 003

Date-Revised : 7/31/2015

Revision No : 1

ESD12101 NuTone Haven Repellent Cartridge

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ESD12101 NuTone Haven Repellent Cartridge

PRODUCT DESCRIPTION: A Mosquito Control Insecticide for Outdoor Residential and Recreational Areas.

PRODUCT CODE: 3095, EPA REG. NO. : 1021-2618

ACTIVE INGREDIENT(S): Metofluthrin

DISTRIBUTOR

Broan-NuTone LLC

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute Toxicity (Inhalation), Category 4

Aspiration Hazard, Category 1

Environmental:

Acute Hazards to the Aquatic Environment, Category 1

Chronic Hazards to the Aquatic Environment, Category 1

Physical:

Combustible Liquids, Category 4

GHS LABEL



Exclamation
mark
(GHS 07)



Health
hazard
(GHS 08)



Environment
(GHS 09)

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SIGNAL WORD: DANGER

HAZARD STATEMENTS

H304: May be fatal if swallowed and enters airways.
 H332: Harmful if inhaled.
 H313: May be harmful in contact with skin.
 H227: Combustible liquid.

PRECAUTIONARY STATEMENT(S)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P264: Wash hands thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P270: Do not eat, drink, or smoke when using this product.
 P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P331: Do NOT induce vomiting.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P370+P378: In case of fire: Use CO₂, dry chemical, or foam for extinction.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

COMMENTS: This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1)], and the G.H.S.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Metofluthrin	4	240494-70-6
Petroleum Distillates	70 - 90	64742-47-8

COMMENTS: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center

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or doctor for treatment advice.

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give **any** liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

INHALATION: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Contains Pyrethroids and Petroleum Distillates - vomiting may pose an aspiration pneumonia hazard. For skin effects, a highly efficient therapeutic agent for Pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E).

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: OSHA-COMBUSTIBLE LIQUID

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions this product will support combustion and may decompose to give off toxic gases, such as carbon dioxide, carbon monoxide, and HYDROGEN FLUORIDE.

FIRE FIGHTING PROCEDURES: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

SENSITIVE TO STATIC DISCHARGE: Yes, use proper bonding and/or grounding procedures.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains Pyrethroids, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and federal/national regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Take prudent precautions to avoid contact with skin, eyes, and clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal.

READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT LABEL.

STORAGE: Store in a cool, dry, well-ventilated place. Keep container closed. Do not use or store near heat, sparks, open flame, any ignition sources, or near strong acids, bases, and oxidizers. Always store pesticides in the original container. Store away from food and pet-food.

KEEP OUT OF REACH OF CHILDREN.

ELECTROSTATIC ACCUMULATION HAZARD: This product contains petroleum distillates for which there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment during loading, unloading, and transfer of this product.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Metofluthrin	TWA	None		None		None	
Petroleum Distillates	TWA	None		None		152 [1]	1200 [1]

OSHA TABLE COMMENTS:

1. Based on total hydrocarbon composition.

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Take prudent precautions to avoid contact with eyes.

SKIN: Take prudent precautions to avoid contact with skin and clothing.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Slight solvent smell.

APPEARANCE: Clear, colorless liquid.

COLOR: 1.0 on Gardner Scale.

pH: 5.62

FLASHPOINT AND METHOD: 62°C (143.6°F) Estimate, based on most flammable ingredient.

VAPOR DENSITY: Heavier than air.

FREEZING POINT: Not Determined

SOLUBILITY IN WATER: Not Determined.

SPECIFIC GRAVITY: 0.796 (Water = 1) at 22.4°C (72.3°F)

VISCOSITY #1: 4.47 cPs at 20°C (68°F) Brookfield

(VOC): 0 %

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: See Section 5 for combustion products.

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11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 5000 mg/kg

Notes: Albino rabbit.

ORAL LD₅₀: > 5000 mg/kg

Notes: Albino rat.

INHALATION LC₅₀: > 2.08 mg/L

Notes: Rats exposed for 4 hours to test atmosphere. The Acute Inhalation LC₅₀ of this material places it in EPA Toxic Category IV.

EYE EFFECTS: Minimally irritating to the eye (Albino rabbit).

SKIN EFFECTS: Slightly irritating (Albino Rabbit).

CHRONIC:

Metofluthrin, Technical:

6-month feeding (Non-Carcinogenic):

NOAEL = 16.0 mg/kg/day in male rats.

NOAEL = 19.0 mg/kg/day in female rats.

SENSITIZATION: Negative.

COMMENTS: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Do not apply directly to water.

BIOACCUMULATION/ACCUMULATION: The bioaccumulation/ bioconcentration factor for Metofluthrin, Technical, is:

Carp (BCF) = 110<--->120.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 3.06 ug/L (Rainbow Trout)

Notes: Fish Acute Toxicity; Metofluthrin, Technical:

LC₅₀ (96 hour)(*Carp*) = 8.28 ug/L.

LC₅₀ (96 hour)(*Medaka*) = 3.06 ug/L.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:

Waste treatment methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

Contaminated packaging: For more information, see product label.

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RCRA/EPA WASTE INFORMATION: None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

14. TRANSPORT INFORMATION

Shipment by Ground under DOT (non-bulk packaging)

Proper Shipping Name	None
Hazard Class	None
UN Number	None
Packing Group	None

Shipment by Ground under DOT (bulk packaging)

Proper Shipping Name	Combustible liquid, n.o.s. (petroleum distillates)
Hazard Class	Combustible liquid
UN Number	NA 1993
Packing Group	III

Shipment by Air under IATA

Proper Shipping Name	Environmentally Hazardous Substance, liquid, n.o.s. (metofluthrin)
Hazard Class	9
UN Number	UN 3082
Packing Group	III
Marine Pollutant	Yes
SP A197	<p>Per Special Provision A197, when transported in single or combination packagings containing a net quantity per single or inner packaging of 5L or less for liquids, these substances are not subject to any other provisions of the IATA Dangerous Goods Regulations provided the packagings meet the following provisions:</p> <ul style="list-style-type: none"> • Packages must be of good quality and strong enough to withstand the shocks and loadings normally encountered in transport. • Packages must be constructed and closed to prevent loss of contents which might be caused by normal conditions of transport, by vibration, or by changes in temperature, humidity, or pressure. • Packages, including inner packages, must be closed in accordance with information provided by the manufacturer. • The outside of the package must be free of any dangerous residue. • Parts of the package that come in direct contact with the dangerous good must not be affected or weakened by the dangerous good, must not cause a dangerous effect, and must not allow permeation of the dangerous good that could constitute a danger under normal conditions of transport.

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	<ul style="list-style-type: none"> • Packages filled with liquid must allow sufficient outage to prevent leakage or permanent distortion of the packaging as a result of an expansion of the liquid caused by temperatures likely during transport. Liquids cannot completely fill a packaging at a temperature of 55°C.
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Shipment by Vessel under IMO

Proper Shipping Name	Environmentally Hazardous Substance, liquid, n.o.s. (metofluthrin)
Hazard Class	9
UN Number	UN 3082
Packing Group	III
Marine Pollutant	Yes

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

313 REPORTABLE INGREDIENTS: This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

REGULATIONS

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains no VOC's (0%).

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

NOTE: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

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CAUTION. Harmful if swallowed. Contains petroleum distillates - Vomiting may cause aspiration pneumonia.

16. OTHER INFORMATION

REVISION SUMMARY: This MSDS replaces the 8/11/2014 MSDS. Revised: **Section 2:**

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	2
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 2, 7, and 8 of this MSDS.

HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 2, 7, and 8 of this MSDS.

COMMENTS: The data contained herein are based on information currently available to Broan-NuTone, LLC and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which Broan-NuTone, LLC assumes legal responsibility.

MSDS Prepared by M. Hughes