

Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: ECO-GUARD BED BUG & FLEA KILLER, REG NO 30963

Label Claim: 400g

Product Manufacturer: UR-CAN INC

Address: 231 Walkers line
Burlington, ON
L7N 2C4

Telephone: 905-631-7887

Emergency Telephone: CANUTEC: (613) 996-6666 collect (24 Hours)

Product Use: Insecticide

WHMIS Classification: A

TDG Classification: Consumer commodity.

Prepared By: UR-CAN Regulatory Department

Preparation Date: September 3, 2016

Revision Date: NA

2. Composition / Information on Ingredients

Actives	CAS Number	Weight %	TLV- ACGIH (ppm)
Permethrin	52645-53-1	0.25	Not Available
Non-Actives			
Water	7732-18-5	60-100	None

The formulation for this product is proprietary information. Product contains non-hazard ingredients which are not listed in above table.

3. Hazards Identification

Emergency overview: Container is under pressure. May cause skin and eye irritation.

Potential Health Effects

Eye: Vapours may cause eye irritation.

Skin: May cause skin irritation. If irritation persists, stop using the product and consult physician.

Ingestion: Not expected in normal use of aerosol. If it occurs, do not induce vomiting. Get medical advice.

Inhalation: Avoid breathing mist, may cause respiratory tract irritation. Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma.

4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Consult Poison Control Centre or physician immediately.

Ingestion: Immediately call a poison control centre or physician. Do not induce vomiting unless told to do so by a poison control centre or physician. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

Inhalation: If irritations persist, remove from exposure to fresh air. Get medical aid immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

This product contains a pyrethroid. If a small amount is ingested (or if treatment is delayed) oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy. If localized paresthesia develops, the site should be thoroughly washed with soap and water. Cold cream can be applied to help diminish the effect.

5. Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measure

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: large spills are not expected in aerosol spray. However, if occurred through manufacturing process, absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. A vapour suppressing foam may be used to reduce vapours.

7. Handling And Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Container is under pressure. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

Engineering Controls: Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

9. Physical And Chemical Properties

Physical State: Aerosol spray mist

Appearance: white, milky

Odour: Characteristic

pH: 6 - 7

Internal container pressure: 90-110 psi

Vapor Density: Not available

Evaporation Rate: > 1

Viscosity: Not available.

Boiling Point: $\geq 100^{\circ}\text{C}$

Freezing/Melting Point: $\leq 0^{\circ}\text{C}$

Autoignition Temperature: Not Applicable

Flash Point: None Flammable, Closed Cup

Decomposition Temperature: Not available.

Explosion Limits (%), Lower: NA; **Upper:** NA

Solubility: Miscible in water.

Specific Gravity/Density: 0.98-1.02

10. Stability And Reactivity

Chemical Stability: The product is stable at normal condition of use.

Conditions to Avoid: Excessive heat, ignition sources, and oxidizing materials.

Incompatibilities with Other Materials: No information available.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

11. Toxicological Information

Route of Entry: Eye Contact, inhalation, and ingestion.

Effects of Acute Exposure: May cause dermatitis, irritation to eyes, dizziness, and vomiting.

Effects of chronic exposure: Avoid inhalation of product mist. Use in well ventilated conditions.

Carcinogenicity of material: Not Classifiable as a Human Carcinogen.

Reproductive effects: No information is available, and no adverse effects are expected.

Teratogenicity: No information is available, and no adverse effects are expected.

Mutagenicity: Permethrin did not produce any mutagenic effects when tested in the Ames assay, Chromosome aberration test or DNA damage test.

Acute toxicity (Intermediate)

Oral Toxicity LD_{50} (rats) > 1490 mg/kg

Dermal Toxicity LD_{50} (rabbits) > 5000 mg/kg

Inhalation Toxicity LC₅₀ (rats) > 2.31 mg/L

12. Ecological Information

Avian Toxicity: Permethrin is slightly toxic to birds with oral LC₅₀ values greater than 3600 mg/kg. Longer dietary studies showed that concentrations of up to 500 ppm in the diet had no effects on bird reproduction.

Aquatic Organism Toxicity: Permethrin is highly toxic to fish (LC₅₀ = 0.5ug/L to 315 ug/L) and aquatic arthropods (LC₅₀ = 0.02 ug/L to 7.6 ug/L). Marine species are often more sensitive than freshwater species. Care should be taken to avoid contamination of the aquatic environment.

Physical: No information available.

Liquid release is only expected to cause localized, non-persistent environmental damage, such as cooling/ drying.

13. Disposal Considerations

Dispose of in accordance with local, provincial and federal regulations.

14. Transport Information

Shipping Name: Ground: AEROSOLS, 2.2, UN1950

15. Regulatory Information

CANADA

WHMIS Classification: A: Compressed gas

USA

Environmental Protection Act: Constituents of this product are included on the TSCA inventory.

HMIS: 1 Health, 1 Fire, 0 Reactivity.

16. Other Information

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration, USA
TSCA	Toxic Substances Control Act 1976, USA
VOC	Volatile Organic Compounds
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
WHMIS	Workplace Hazardous Materials Information System

This MSDS is written to provide health and safety information for individuals who will be handling the final product formulation during research, manufacturing, and distribution. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate MSDS for each ingredient. Refer to the package insert or product label for handling guidance for the consumer.

Disclaimer:

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. **This MSDS is valid for three years.**

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