



1. IDENTIFICATION

Product Name: Banshee
Other Names:
Recommended Use: Mite Repellent
Manufacturer: Renovo Technologies Ltd
Address: PO Box 3218, Fitzroy, New Plymouth 4312
Telephone: 0800 002920
Emergency Phone: 0800 CHEMCALL (0800 243 622)
National Poisons Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Signal Word: DANGER

Hazards:

Skin irritation category 2
 Serious eye damage category 1
 Skin sensitization category 1

Hazard Phrases

Causes skin irritation.
 Causes serious eye damage.
 May cause an allergic skin reaction.

Precautionary Phrases:

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Read label before use.
 Avoid breathing vapours/spray
 Wash any areas of the body that have come into contact thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 IF ON SKIN: Wash with plenty of soap and water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before re-use.
 Dispose of contents/container in accordance with local/regional/national/international regulations

Pictograms:



3. COMPOSITION: Information on Ingredients

Ingredient	CAS Number	Concentration (%w/w)
Aniseed Essential Oil	N/A	<20%
Fatty Alcohol Ethoxylate	68439-46-3	<20%
Balance – Proprietary ingredients of low hazard	Proprietary	To 100%



4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Swallowed

If swallowed, do not induce vomiting. If conscious and alert, rinse mouth and drink 1-2 cupfuls of water. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain urgent medical attention.

Skin Contact

Immediately wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes and other contaminated leather articles such as belts and watchbands. Seek medical attention.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do and continue rinsing. Do NOT allow victim to rub eyes or keep eyes closed. Obtain urgent medical attention.

Inhalation

Move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Obtain medical attention immediately.

First Aid facilities

Provide eye baths and safety showers close to areas where exposure may occur.

Medical Attention

No known antidote.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Fine water spray, chemical powder, foam or carbon dioxide. Alcohol resistant foams preferred. Do not use water stream directly as this may spread fire or give a violent steam eruption. Cool fire exposed container with water spray.

Hazards from combustion products

Decomposition from combustion may emit acrid smoke and toxic fumes.

Precautions for fire fighters and special protective equipment

Full protective clothing with chemical goggles, butyl or neoprene gloves and self-contained breathing apparatus

Hazchem Code

2Z

Flash Point

>100°C

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment vessel or bunded area. Prevent any vapours or dust from building up in confined areas. Ensure that drain valves are closed at all times. Clean up minor spills immediately.

Methods and materials for containment for a major spill

Eliminate sources of ignition. Warn occupants of downwind areas of possible hazards. Keep the public away from the area. Prevent product from entering sewers, watercourses, or low-lying areas. Shut off the source of the spill if safe to do so. Advise relevant authorities if substance has entered a watercourse or sewer or has contaminated soil



or vegetation. Take measures to minimise the effect on the groundwater. If possible recover product using a pump or absorbent material. Collect and seal in properly labelled containers for disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. In all instances due consideration must be given for First Aid Measures (Section 4), PPE requirements (Section 8), Stability and Reactivity (Section 10) for this material.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep out of reach of children. This product is volatile, with vapours readily entering the air. Keep containers closed. Avoid sources of ignition including smoking. Use only in well-ventilated areas. When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before reuse.

Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Keep away from heat and ignition sources. Store in original containers. Protect from physical damage to prevent accidental release.

Incompatible materials

None known.

Fire Extinguisher Requirements

No specific requirements.

8. EXPOSURE CONTROLS: Personal Protection

Exposure Limits

No WES TEL or EEL has been set by EPA NZ for this product.

Engineering Controls:

The use of local exhaust ventilation is recommended to control process emissions near the source. Sufficient ventilation should be provided to keep the solvent in air concentrations below any relevant exposure limit. Provide mechanical ventilation of confined spaces.

Hygiene Controls:

Facilities storing or utilising this material should be equipped with an eyewash facility, safety shower and facility for washing hands/face after work.

Personal Protective Equipment

Respiratory Protection: When handling this material it is recommended to use an approved respirator or half face mask complying with OSH and other relevant standards

Eye protection: Always use safety glasses or chemical goggles when handling this product. Contact lenses may absorb and concentrate irritants, glasses are recommended.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear of safety boots when handling this product. It is recommended that chemical resistant gloves (eg nitrile, neoprene) be worn when handling this product.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear dark golden liquid
Odour:	Aniseed odour
Odour Threshold:	No data available
Boiling Point (°C):	No data available
Boiling Point Range	No data available
Melting Point (°C):	Not applicable
Flash Point (°C):	>95
Lower Explosive Limit, LEL (%):	No data available
Upper Explosive Limit, UEL (%):	No data available
SG/ Density, 20°C (g/mL):	0.89 – 0.91
Vapour Pressure, 20°C (kPa):	No data available
Vapour Density:	No data available
Alkalinity/ acidity as pH:	Not applicable
Solubility in water:	Forms an emulsion
Partition Coefficient (Kow):	No data available for formulated product
Auto-ignition Temperature (°C):	No data available
Decomposition Temperature (°C):	No data available
Kinematic Viscosity:	No data available

The values listed are indicative of this product's physical and chemical properties. Data is not available for any properties not listed above.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure.

Hazardous decomposition products

Decomposition from combustion may emit acrid smoke and toxic fumes.

Specific Materials to Avoid

Strong acids, alkalis, oxidising agents, reducing agents and heat.

Hazardous Polymerisation

Not known to occur.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion: Low toxicity if swallowed. Symptoms may include headache, dizziness, drowsiness, nausea, vomiting.

Eye Contact: The liquid may cause serious eye irritation. Avoid eye contact

Skin Contact: Contact with the skin may cause mild irritation or an allergic reaction. Avoid skin contact.

Inhalation: The vapour/mist may be discomforting to the upper respiratory tract and lungs in sensitive individuals.

Acute effects from inhalation of high vapour concentrations may cause effects similar to that of ingestion.

Chronic Effects

Contact with the skin may result in an allergic reaction. Persons with pre-existing conditions are advised to limit or avoid product contact.

Other Health Effects Information

Not Available.

Toxicological Information

Oral LD₅₀: >5000 mg/kg (product, estimated)



12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is not considered dangerous to the environment based on mixture rules. No specific ecological data available on this product.

Persistence/ Biodegradability: Not persistent.

Mobility: This product is not readily soluble with water limiting its mobility in the environment. This product is likely to have low mobility in the environment and low leaching potential

Aquatic Toxicity:

Fish toxicity LC₅₀: 24.9 mg/L; (product, estimated)

Daphnia Magna EC₅₀: 42.8 mg/L; (product, estimated)

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of product only by using according to label or using an approved waste disposal contractor. If this material as supplied becomes a waste care should be taken to ensure compliance with national and local authorities. It is the responsibility of the waste generator to determine the toxicity and physical properties of the waste generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Do not dispose of via municipal sewers, drains, natural streams or rivers

Packaging Disposal

Triple rinse container and add rinsate to the spray tank. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Incinerate via approved incinerators or crush and bury in an approved landfill. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

Country/ Region: New Zealand

ACVM Approval Number: Exempt from regulations under ACVM (Exemptions and Prohibited Substances) Regulations 2011.

EPA NZ Approval Number: HSR002521

HSNO Controls:

Trigger Quantities for this Material:

- Certified Handler Test Certificate: Not Required
- Location Compliance Certificate: Not Required
- Hazardous Atmosphere Zone: Not Required
- Signage: 1000 L
- Emergency Plan, Secondary Containment: 1000L
- Tracking: Not required

The trigger quantities above must take into account any other hazardous substance that is present at that location. This represents a partial list of the controls for this material. Contact the supplier for a full list of HSNO controls.



16. OTHER INFORMATION

Reasons for Issue:

Update to sections 2 and 9

Abbreviations:

TWA - the highest allowable exposure concentration in an eight-hour day for a five-day working week

STEL - maximum allowable exposure concentration at any time

CAS Number: Chemical Abstracts Number

EPA NZ: Environmental Protection Authority New Zealand

HSNO: Hazardous Substances and New Organisms

References:

- Supplier Safety Data Sheets
- Hazardous Substances Databank
- EPA NZ Chemical Classification Information Database

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the suppliers knowledge. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Renovo Technologies Limited.