

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS:

Thorley Laboratories Pty Ltd.

A.C.N. 072 381 009 ABN 37 782 591 109

41 PRECISION STREET

SALISBURY, QLD, 4107 AUSTRALIA

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Not classified as hazardous according to the criteria of NOHSC Australia.

IDENTIFICATION

Product Name: RID REPELLENT LOW IRRITANT PUMP SPRAY

Product Code: 313175 175mL Pump Spray Bottle APN 9311037331755

UN No: None allocated Hazchem Code: None allocated

Dangerous Goods Class: None allocated

Sub Risk Class: None allocated

Packaging Group: None allocated

Poison Schedule: Not scheduled.

Chemical Family: Water solution of ingredients (see below).

Uses: Personal insecticide sprayed onto skin from a pump pack..

Physical Description & Properties

Appearance & Odour: White, non-fragrant, non-greasy cosmetic based Spray.

Melting/softening point: Approximately 0°C.

Boiling point and vapour pressure: Approximately 85-100°C at 100kPa.

Volatile materials: Water component.

Flashpoint: Does not burn.

Specific gravity: Approximately 0.98 at 20 deg C.

Solubility in water: Approximately 200 grams/litre.

Corrosiveness: Not corrosive. pH 6.4-6.7

| Ingredients | CAS No | Proportion, %w/v | Worksafe Exposure Limits | |
|---------------------------------|-----------|------------------|--------------------------|-------------------------|
| | | | TWA, mg/m ³ | STEL, mg/m ³ |
| Chemical Entity | | | | |
| N,N-diethyl-m-toluamide (DEET) | 134-62-3 | 10.0 | not set | not set |
| Other non hazardous ingredients | secret | 0.1 to 10 | not set | not set |
| Water | 7732-18-5 | to 100 | not set | not set |

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

HEALTH HAZARD INFORMATION

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

This product contains N,N-Diethyl-M-Toluamide (DEET) which is absorbed through the skin. It may be dangerous when used in large amounts or for long periods due to the possibility of systemic toxicity. 3 to 6 months may be required, to allow absorbed DEET to get out of the system. Prolonged exposure to DEET may also cause skin sensitisation.

Acute Effects:

Swallowed: Data suggests that this product should present no significant problems to typical persons in normal use.

Eye: This product is mildly irritating to the eyes. It is likely to cause mild discomfort such as watering and redness of the eyes. However, this should quickly disappear once exposure is over.

Skin: Data suggests that this product should present no significant problems to typical persons in normal use.

Inhalation: Data suggests that this product should present no significant problems to typical persons in normal use.

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First Aid:

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia.
Eyes: If product gets in eyes, wash material from them with running water. If they begin watering or reddening, take special care in washing thoroughly.

Skin: No first aid measures should normally be required.

Inhalation: No first aid measures normally required. However, if vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Advice to Doctor: Treat symptomatically. Note the nature of this product.

PRECAUTIONS FOR USE

Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use.

Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

The following instructions are meant for people coming into frequent and lengthy contact with this product. For occasional use, take precautions suitable for the conditions under which the product is being used.

Respiratory Protection: It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred. For help in selecting suitable equipment, consult AS/NZS 1715.

Protective Gloves: Protective gloves are not normally necessary when using this product. However, it is always prudent to wear gloves. For help in selecting suitable equipment, consult AS 2161.

Eye Protection: Protective eyewear is suggested when using this product. It is always prudent to use protective eyewear. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

Clothing: This product is essentially safe to use without special protective clothing. However, its use is recommended as a good industrial practice. Consult AS2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

SAFE HANDLING INFORMATION

Storage & Transport

No special storage and transport requirements. This product has no UN classification. Not a Scheduled Poison. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

Spills & Disposals

Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations.

Fire & Explosion Hazard

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Flashpoint: Not flammable.

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Flammability limits: Not applicable. This product is not flammable.

Extinguishing Media: carbon dioxide, dry chemical, foam, water fog.

Special Fire Fighting procedures: When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat and preferably, goggles.

Unusual Fire & Explosion Hazards: Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.

Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Water.

Materials to avoid: strong oxidising agents.

OTHER INFORMATION

Contact Points:

AUSTRALIA

**Police and Fire Brigade:
Brisbane Office**

| | |
|--------------|----------------------|
| Dial | 000 |
| Phone | (07)3277 9966 |
| Fax | (07)3275 3231 |

Emergency number:

(07) 3277 9966

National Poisons Information Centre: Dial 13 1126 (from anywhere in Australia)

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. 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 including in conjunction with other products.