

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS:

Thorley Laboratories Pty Ltd.

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41 PRECISION STREET

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

IDENTIFICATION

Product Name: RID REPELLENT TROPICAL STRENGTH PUMP SPRAY

Other Names: Proper shipping name is ETHANOL SOLUTION

Product Code: 403100 100ml Pump Spray APN 9311037431004

UN No: 1170 Hazchem Code: 2(Y)

Dangerous Goods Class: 3 Flammable Liquids

Sub Risk Class: None Allocated

Packaging Group: III

Most EPGs may now be substituted by the Initial Emergency Response Guide, available from Standards Australia.

Poison Schedule: Not scheduled.

Chemical Family: Blend of ingredients (see below).

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

Physical Description & Properties

Appearance & Odour: Fine clear spray. Mild odour.

Melting/softening point: No specific data. Liquid at normal temperatures.

Boiling point and vapour pressure: Boils in a range beginning about 65C at 100kPa

Volatile materials: Approx 60-80% at 100C.

Flashpoint: Approx 50C

Specific gravity: 0.93 at 20°C

Solubility in water: Soluble

Corrosiveness: Not corrosive.

Ingredients Chemical Entity	CAS No	Proportion, %w/v	Worksafe Exposure Limits	
			TWA, mg/m ³	STEL, mg/m ³
DEET	134-62-3	19%	not set	not set
Ethanol	64-17-5	30-60	1880 not set	
Other non hazardous ingredients	secret	0.2-10	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 may irritate eyes. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any significantly lasting effects.

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.

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) has been established for Ethanol, present in significant quantities in this product. This value is 1880mg/m³. The corresponding STEL level is "not set". The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet.

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

This product is classed as UN1170, Dangerous Goods Class 3 Flammable liquids. Proper Shipping name is ETHANOL SOLUTION. Class 3 Flammable Liquids shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 2.1 (Flammable Gases where flammable liquids and flammable gases are both in bulk), 2.3 (Toxic Gases), 4.2 (Spontaneously Combustible Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Toxic Substances, except Flammable Liquid is nitromethane), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with

