

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

Telephone No: (07)3277 9966

Fax: (07)3275 3231

Emergency phone: (07) 3277 9966

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

IDENTIFICATION

Product Name: **MEDICATED SPRAY RID REPELLENT PLUS ANTISEPTIC**

Other Names: Proper Shipping Name is AEROSOLS

Product Code: 204100 100g Steel Can APN 9311037100085 204150 150g Steel Can APN 9311037141507

UN No: 1950 Hazchem Code: 3[Y]

Dangerous Goods Class: 2.1 Flammable gases.

Sub Risk Class: 3 Flammable liquids.

Packaging Group: Not set

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). Major active ingredient is DEET

Uses: Medicated insect bite treatment and personal insect repellent in aerosol form.

Physical Description & Properties

Appearance & Odour: Pale yellow liquid spray. Mild odour.

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

Boiling point and vapour pressure: Boils in a range from 78°C (ethanol) upwards.

Volatile materials: 70-80% at 100°C

Flashpoint: No specific data. However, burns readily below 10°C.

Specific gravity: 0.82 at 20°C

Solubility in water: Approx 50% of the liquid is water soluble.

Corrosiveness: Not corrosive.

Ingredients	CAS No	Proportion, %w/v	Worksafe Exposure Limits	
			TWA, mg/m ³	STEL, mg/m ³
Chemical Entity				
Ethanol	64-17-5	30-60	1880	not set
DEET	134-62-3	16	not set	not set
Butane/propane mixture	74-98-6/106-97-8	26	not set	not set
Other non hazardous ingredients	secret	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:

Major health effect from this product is misuse of the aerosol function. If sprayed continuously on skin or in eyes, it can cause frostbite.

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

Eye: This product may be mildly irritating to eyes. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any 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.

If swallowed, do NOT induce vomiting. Give a glass of water.

If frostbite has occurred, immerse affected area in water that is neither hot or cold, but near body temperature (35-42°C). Do not allow injured area to warm up too rapidly as further injury may result.

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 not normally necessary when using this product. However, 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.

MATERIAL SAFETY DATA SHEET

SAFE HANDLING INFORMATION

Storage & Transport

This product is classed as UN1950, Dangerous Goods Class 2.1 Flammable gases. Proper Shipping name is AEROSOLS. Class 2.1 Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids) (where both flammable liquids and flammable gases are in bulk), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.2 (Non-flammable Non-Toxic gases), 3 (Flammable liquids except where both flammable liquids and flammable gases are in bulk), 6 (Toxic Substances), 8 (Corrosive Substances) 9 (Miscellaneous dangerous goods), Foodstuffs and foodstuff empties.

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

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. 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. Recycle containers wherever possible. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

Fire & Explosion Hazard

There is a moderate risk of an explosion from this product if it is involved in a fire. Firefighters should take care and appropriate precautions.

Flashpoint: No specific data. However, burns readily below 10°C.

Flammability limits: No data

Extinguishing Media: carbon dioxide, dry chemical, foam, water fog. Foam is the preferred medium for large fires.

Special Fire Fighting procedures: If a significant quantity of this product is involved in a fire, call the fire brigade.

Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

Unusual Fire & Explosion Hazards: Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

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.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.