

# MATERIAL SAFETY DATA SHEET

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

## I IDENTIFICATION

Product Name: Robocan Insect Killer

Other Names: Proper Shipping Name is AEROSOLS

Product Code: NRA code: 49235

UN No: 1950

Hazchem Code: 2[Y]

Dangerous Goods Class: 2.1 Flammable gases.

Sub Risk Class: None (solvents and remaining liquids not flammable).

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).

Uses: Aerosol insecticide.

## Physical Appearance & Properties

Appearance & Odour: Clear, colourless liquid. Mild odour.

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

Boiling point and vapour pressure: Not available.

Volatile materials: Slowly volatile at 100°C, but >99% volatile at higher temperatures.

Flashpoint: Not available

Flammability limits: Not available

Specific gravity: 0.61

Solubility in water: Insoluble.

Corrosiveness: Not corrosive.

Vapour Pressure: No data.

## Ingredients

## Worksafe Exposure Limits

Chemical Entity	CAS No	Label Gms/kg	Proportion %	TWA, mg/m <sup>3</sup> mg/m <sup>3</sup>	STEL <sub>1</sub> mg/m <sup>3</sup>
Propane/butane blend	68475-59-2		60.0	not set	not set
Liquid hydrocarbon	64742-48-9		33.6	not set	not set
Pyrethrins @ 50%	8003-34-7	9	1.8	5	not set
Piperonyl butoxide	51-03-6	45	4.6	not set	not set

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

## II HEALTH HAZARD DATA

### 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), nor in NOHSC's "List of Designated Hazardous Substances" (April 1999).

### 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.

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Swallowed: Single dose oral toxicity is considered to be low. No hazards are anticipated from swallowing small amounts incidental to normal handling operations.

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: Exposure to this product is not likely to cause significant irritation, nor is it likely to be absorbed through skin in harmful amounts.

Inhalation: No inhalation hazards incidental to normal handling operations are anticipated from this product when used at room temperatures.

### First Aid:

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia.

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.

Swallowed: If swallowed, do NOT induce vomiting. Wash mouth with water and give a glass of water to drink.

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: If product gets on skin, wash skin to remove material. No further 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.

## III 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 NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established. The ADI (Acceptable Daily Intake) for Pyrethrins is set at 0.04mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 0mg/kg/day. Values taken from Australian ADI List, January 2001.

### 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 in industrial situations, or when packages are broken or faulty. For domestic use, no special precaution or special clothing is usually required.

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.

## IV 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

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

Flashpoint: Not available

Flammability limits: Not available

Extinguishing Media: carbon dioxide, dry chemical, foam, water fog. Water fog or fine spray 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 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. Water.

Materials to avoid: strong oxidising agents.

**Note:** This product is classed as a Dangerous Good. We suggest you consult your state's Dangerous Goods laws in order to clarify your obligations regarding the storage of this product.

## V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

### Contact Points:

**Police and Fire Brigade:**

**Dial**

**AUSTRALIA**

**000**

**For emergency response:**

**Dial**

**1800 673 755**

**National Poisons Information Centre:**

**Dial 13 1126 (from anywhere in Australia)**

Please read all labels carefully before using product.

<http://www.kilford.com.au/>

Phone (02)9516 2079