



# Safety Data Sheet

## Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Safe Repel Natural Insect Repellent

**Uses:** Insect repellent.

**Company:** Ardrich Limited

**Address:** 31 Hannigan Drive  
St Johns  
Auckland, 1072

**Phone:** +64 9 570 2861

**Email:** info@ardrich.co.nz

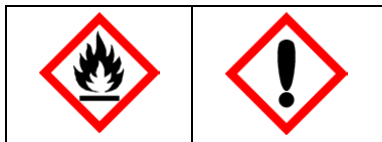
**Emergency Phone No:** 0800 764 766 (0800 POISON) **National Poison Centre** (after hours)

## Section 2 – HAZARDS IDENTIFICATION

**Statement of Hazardous Nature:** Hazardous Substance according to Environmental Protection Authority, New Zealand.

### HSNO Classifications:

3.1B Flammable Liquids: high hazard  
6.1D (inhalation) Acutely toxic  
6.1E (dermal) Acutely toxic  
6.3A Irritating to the skin  
6.4A Irritating to the eye  
9.1C Harmful in the aquatic environment (fish, crustacean)



**Signal Words:** Danger

H225 Highly flammable liquid and vapour.  
H303 May be harmful if swallowed.  
H313 May be harmful in contact with skin.  
H315 Causes skin irritation.  
H320 Causes eye irritation.  
H332 Harmful if inhaled.  
H412 Harmful to aquatic life with long lasting effects.

### Precaution Statements

P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat and open flames/hot surfaces. No smoking.  
P261 Avoid breathing vapours.  
P264 Wash hands thoroughly after handling.  
P271 Use outdoors or in a well-ventilated area.

**HMIS Codes:** Health 2, Flammability 3, Reactivity 0



# Safety Data Sheet

## Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Ethanol Denatured	64-17-5	> 60
Citronella Oil	8000-29-1	10 - 30
Other ingredients determined to not be hazardous	-	to 100%

## Section 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand. Call a POISON CENTRE or doctor if you feel unwell.

<b>Eye contact:</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Inhalation:</b>	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.
<b>Ingestion:</b>	IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Where there is risk of vomiting, lean person forward or place on side to avoid aspiration of product into lungs. Obtain immediate medical attention.
<b>Skin contact:</b>	Direct contact may cause irritation in sensitive individuals. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
<b>Notes to physician:</b>	Treat symptomatically and supportively. Risk of aspiration to lungs. No specific antidote.

## Section 5 – FIRE-FIGHTING MEASURES

<b>Specific hazards:</b>	Containers can build up pressure if exposed to heat and/or fire. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. Will burn if involved in a fire.
<b>Further advice:</b>	On burning may emit toxic fumes including those of carbon monoxide and carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion.
<b>Extinguishing media:</b>	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.
<b>Hazchem Code:</b>	2YE

## Section 6 – ACCIDENTAL RELEASE MEASURES

<b>Minor spills:</b>	Clean up immediately. Remove all sources of ignition. If safe, damaged containers should be placed in a container outdoors, away from all ignition sources. Undamaged containers should be gathered and stowed safely. Provide ventilation. Wash with water.
<b>Major spills:</b>	Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. If safe to do so, prevent spillage from entering drains or water courses. If material enters drains, advise emergency services. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers for disposal. Wash area down with excess water.
<b>Disposal Statement</b>	Product wastes are considered ecotoxic and should be disposed of in accordance with local legislation. Incineration is suggested.

## Section 7 – HANDLING AND STORAGE

<b>Handling Precautions:</b>	Read product label before use. This product is highly flammable. Do not use near open flame, or sources of ignition. No smoking.
<b>Storage:</b>	Store in a well ventilated, cool, dry place.



# Safety Data Sheet

## Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** No value assigned for this specific material. However, exposure standards for constituents;

Material	TWA, mg/m <sup>3</sup>	STEL, mg/m <sup>3</sup>	Category/Notices
Ethanol Denatured	1880	-	-

**Additional Information:** Wash hands before eating, drinking and smoking. Do not eat, drink or smoke when using this product.

**Engineering Controls:** No controls required when handling small quantities. Use with adequate ventilation.

**Protective Equipment:** Not generally required when handling small quantities If TWA is exceeded, wear an approved respirator with a type A filter.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Clear volatile liquid with a mild odour.

**pH:** Not applicable.

**Vapour Density:** > 1 (Air =1)

**Vapour Pressure, kPa:** Not applicable.

**Boiling Point, °C:** About 78.

**Melting Point, °C:** Not applicable.

**Specific Gravity:** About 0.8

**Flash Point, °C:** 12

**Explosion Limit, % v/v:** LEL 3.5% UEL 19.0%

**Autoignition Temperature, °C** 392

**Solubility:** Miscible in water. Soluble in common organic solvents.

## Section 10 – STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use and storage. Not reactive. Avoid oxidisers. Hazardous polymerisation will not occur.

## Section 11 – TOXICOLOGICAL INFORMATION

**Basis for Assessment:** Information given is based on product testing, and/or similar products, and/or components.

**Acute Oral Toxicity:** LD50 8,400 mg/kg, Rat (calculated from components). Slightly harmful if swallowed.  
Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis.

**Acute Dermal Toxicity:** LD50 8,650 mg/kg, Rabbit. (calculated from components). Relatively low toxicity.

**Acute Inhalation Toxicity:** LC 50 14.8 mg/L (calculated from components). High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.

**Skin Irritation:** May cause mild skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. May cause skin sensitisation.

**Eye Irritation:** Vapours may be irritating to the eye.

**Respiratory Irritation:** Inhalation of vapours may cause irritation to the respiratory system.

**Repeated Dose Toxicity:** Central nervous system: repeated exposure affects the nervous system. May cause damage to organs. Prolonged contact with product may result in irritant contact dermatitis.

**Additional Information:** None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.



# Safety Data Sheet

## Section 12 – ECOTOXICITY INFORMATION

**Ecotoxicity:** Toxic in aquatic environments.

**Persistence/Bioaccumulation:** No information available to indicate product is persistent or bioaccumulative.

## Section 13 – DISPOSAL CONSIDERATIONS

**Material Disposal:** Product wastes are considered ecotoxic and should be disposed of in accordance applicable regional and national regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water. Incineration is suggested.

**Container Disposal:** Containers are considered to be the same hazard as contents. Do not dispose of large quantities in landfill.

## Section 14 – TRANSPORT INFORMATION

**Transport:** Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air.

Class 3.1 should not be loaded on the same vehicle as Classes 1, 2 (where both are in bulk), 4, 5, and 7. They may be loaded with Classes 3, 6, 8, 9, foodstuffs and foodstuff empties.

**Proper Shipping Name:** Flammable Liquid N.O.S.

**UN Number:** 1992

**Dangerous Goods Class:** 3.1B Flammable liquids

**Subsidiary Risk:** Not applicable.

**Packing Group:** III

## Section 15 – REGULATORY INFORMATION

**EPA Group Standard:** N.O.S. (Flammable) Group Standard 2006 HSR002621

## Section 16 – OTHER INFORMATION

The information contained in this Safety Data Sheet is provided in good faith and is believed to be correct as at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining it's appropriateness for a particular purpose. The Proprietor makes no representation as to the accuracy or comprehensiveness of the information. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of the use of the product are therefore assumed by the user and we expressly disclaim all warranties of any kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Appropriate warnings and safe handling procedures should be provided to handlers and users. End of msds.