

MATERIAL SAFETY DATA SHEET

Ardrich Airomist Pest Repellent Aerosol

Section 1 – IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product Name: Ardrich Airomist Pest Repellant Aerosol
Uses: Insect Repellant
Company: Ardrich Limited
Address: 10 Bayer Road. Elizabeth South. SA 5112
Telephone: 1 800 058 655
Email: info@ardrich.co.au
Emergency number: PH: 418845456
Poison Centre: PH: 131126

Section 2- HAZARDS IDENTIFICATION

Warning Statements:

HAZARDOUS SUBSTANCE, according to the criteria of the NOHSC and DANGEROUS GOODS according to the ADG Code.

This product is classified as: Xn, Harmful. N, Dangerous to the environment

Poisons Schedule: None

RISK

| Risk Codes | Risk Phrases |
|------------|---|
| R12 | Extremely flammable. |
| R44 | Risk of explosion if heated under confinement. |
| R51/53 | Toxic to aquatic organisms, may cause long term effects on aquatic environment. |

SAFETY

| Safety Codes | Safety Phrases |
|--------------|--|
| S03 | Keep in a cool place. |
| S09 | Keep container in well ventilated place. |
| S13 | Keep away from food, drink and animal feeding stuffs. |
| S15 | Keep away from heat. |
| S16 | Keep away from sources of ignition. No smoking. |
| S23 | Do not breathe gas/fumes/vapour/spray. |
| S24/25 | Avoid contact with skin and eyes. |
| S29 | Do not empty into drains. |
| S33 | Take precautionary measures against static discharges. |
| S35 | This material and its container must be disposed of in a safe way. |
| S36 | Wear suitable protective clothing. |
| S37 | Wear suitable gloves |

| | |
|-----|--|
| S38 | In case of insufficient ventilation wear suitable respiratory equipment. |
| S40 | To clean the floor and all objects contaminated by this material use water. |
| S41 | In case of fire and/or explosion DO NOT BREATHE FUMES |
| S46 | If swallowed, seek medical advice immediately and show this container or label. |
| S51 | Use only in well ventilated area. |
| S53 | Avoid exposure – obtain special instructions before use. |
| S56 | Dispose of this material and container at hazardous or special waste collection point. |
| S57 | Use appropriate container to avoid environmental contamination. |
| S61 | Avoid release into the environment. Refer to special instructions/MSDS. |

Section 3 – COMPOSITION/INFORMATON ON INGREDIENTS

| Chemical Entity | CAS No | Proportion % |
|--|------------|--------------|
| Naptha (petroleum} heavy alkylate | 64741-65-7 | 30 - 60 |
| Piperonyl butoxide | 51-03-6 | 0 -10 |
| Pyrethrins 1 & 11 | 8003-34-7 | 0 -10 |
| Propane Butane blend | 68475-59-2 | >60 |
| Other ingredients determined not to be hazardous | | to 100% |

Section 4 – FIRST AID MEASURES

If medical advice is needed have product container or label at hand.

If exposed or if you feel unwell call a Poison Centre or Doctor

| | |
|----------------------------|---|
| Eye Contact: | If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if easy to do. Continue to rinse. If eye irritation persists get medical attention |
| Inhalation: | If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms call a Poisons Centre or Doctor |
| Ingestion: | If swallowed immediately call a Poison Centre or Doctor. Do NOT induce vomiting. Where there is a risk of vomiting, lean forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention. |
| Skin Contact: | Direct contact may cause irritation in sensitive individuals. If on skin wash with plenty of soap and water. If skin irritation occurs seek medical attention. |
| Notes to Physician: | Treat symptomatically. Risk of aspiration to lungs. No specific antidote. Potential for chemical pneumonitis. Consider gastric lavage with protected airway and administration of activated charcoal. |

Section 5 – FIRE-FIGHTING MEASURES

Extinguishing media: For small fires use water spray, dry chemical or CO₂.
For large fires use water spray or fog.

Special Hazards: Avoid contamination with oxidizing agents.

Fire Fighting: Alert Fire Brigade, tell them the location and nature of hazard.
May be violently or explosively reactive.
Wear breathing apparatus and protective gloves.
Prevent spillage from entering drains or water courses.

If safe, switch off electrical equipment.

DO NOT approach containers suspected to be hot.
Cool fire exposed containers with water spray from a protected area.
If safe to do so, remove containers from path of fire.
Equipment should be thoroughly decontaminated after use.

Fire / explosion

Hazard:

Liquid and vapour are highly flammable.
Severe fire hazard when exposed to heat or flame.
Vapour forms an explosive mixture with air.
Aerosol cans may explode on exposure to naked flames.
May emit acrid, poisonous or corrosive fumes.

Products of

Combustion:

Carbon Monoxide, Carbon Dioxide and pyrolysis products typical of burning organic products.

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor Spills:

Clean up immediately.
Avoid breathing vapour and contact with skin and eyes.
Wear protective clothing, impervious gloves and safety glasses.
Shut off all possible sources of ignition and increase ventilation.
If safe, damaged cans should be placed in a container outdoors away from all ignition sources until pressure has been dissipated.

Major Spills:

Evacuate the spill area.
Call the fire brigade.
Remove all sources of ignition.
May be violently or explosively reactive.
Wear breathing apparatus plus protective gloves.
Prevent, by any means available, spillage entering drains or water courses.
Stop leak if safe to do so.
Absorb or cover spill with sand, earth, vermiculite or other inert material.
If safe, damaged cans should be placed in a container outdoors away from all ignition sources until pressure has been dissipated.
Undamaged cans should be gathered and stowed safely.

Section 7 – HANDLING AND STORAGE

Precautions for safe handling:

Read label before use.
Wear protective clothing when risk of exposure occurs.
Use in a well ventilated area.
Avoid smoking, naked flames and sources of ignition.
Always wash hands with soap & water after handling.
Work clothes should be washed separately.
When handling **DO NOT** eat, drink or smoke.
DO NOT puncture or incinerate aerosol cans.
DO NOT spray directly on humans, food or food utensils.

Storage:

Protect from sunlight.
DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
Store below 38°C.
Store in a well ventilated, cool, dry place.
Keep away from heat, sparks and flames.
Store in an approved flammable liquid storage area.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Precautions: No value assigned for this material. However, exposure standards for constituents are:

| Material | TWA mg/m ³ | STEL |
|------------------------------------|-----------------------|------|
| Naphtha (petroleum) heavy alkylate | 1200 | |
| Butane/Propane blend | 1800 | |
| Pyrethrins | 5 | |

Additional Information: After use, wash hands before eating, drinking and smoking.

Engineering Controls: No controls required when handling small quantities. Use with adequate ventilation.
General exhaust is adequate under normal operating conditions for larger quantities. Ventilation equipment should be explosion resistant.

Protective Equipment: Gloves, safety glasses or chemical goggles are recommended in an industrial environment. If TWA is exceeded, wear an approved respirator with a type A filter.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear volatile liquid
pH: Not applicable
Vapour Density: >1 (Air=1)
Vapour pressure, kPa: 300-600
Boiling Point, °C: Not applicable
Melting Point, °C: Not applicable
Specific Gravity: Not applicable
Flash Point, °C: < 0
Explosion Limit, % v/v: LEL 1.2% UEL 9.5%
Autoignition Temp, °C: Not applicable
Solubility: Not soluble in water. Soluble in common organic solvents.

Section 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Reactivity: Not reactive. Avoid oxidizers. Avoid elevated temperatures.
Incompatible Material: Strong oxidizing agents.

Section 11 – TOXICOLOGICAL INFORMATION

No adverse health effects expected if product is handled in accordance with this safety data sheet and product sheet. Symptoms that may arise if this product is mishandled are: -

Acute Effects

Ingestion: Unlikely. May result in nausea, abdominal irritation, pain and vomiting. The liquid is highly discomforting to the gastro-intestinal tract and may cause dizziness, disorientation, mental confusion and slurred speech.
Eye Contact: The material may produce severe irritation to the eye causing severe inflammation. Repeated and prolonged exposure to irritants may produce conjunctivitis.
Skin Contact: Toxic effects may result from skin absorption.
Bare, unprotected skin should not be exposed to this material.
The material may accentuate any pre-existing condition.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

- Inhalation:** Inhalation hazard is increased at elevated temperatures.
Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, head-aches and even nausea.
WARNING: Intentional misuse by concentrating/inhaling may be lethal. Not considered an irritant through normal use.
- Chronic Toxicity:** As with any chemical, contact with any bare skin, inhalation of any vapour, mist or dust in work-place atmosphere, or ingestion in any form, should be avoided by observing good occupational work practice.

Section 12 – ECOTOXICITY INFORMATION

- Ecotoxicity:** The material is classified as an ecotoxin because the Fish LC50 (96 hours) is less than or equal to 0.1mg/litre.
Very toxic in aquatic environments. Very toxic to bees, fish and aquatic invertebrates.
- Mobility:** Floats on water. Absorbs to soil and has low mobility.
- Persistence/
Biodegradability:** Biodegradable – oxidized rapidly by photochemical reactions.

Section 13 – DISPOSAL CONSIDERATIONS

Waste Treatment

- Methods:** DO NOT allow wash water from cleaning or process or cleaning to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations.
Discharge contents of damaged aerosols at an approved site.
DO NOT incinerate or puncture aerosol cans.
Bury residues and damaged cans at an approved site.

Section 14 – TRANSPORT INFORMATION

- Transport:** Classified as a Dangerous Goods according to ADG for transport by road and rail, IMDG for sea and IATA for air.
- HAZCHEM** 2YE
- Proper Shipping**
- Name:** Aerosols
- UN Number:** 1950
- Dangerous Goods**
- Class:** 2.1 Flammable Aerosols.
- Subsidiary Risk:** Not Applicable
- Packing Group:** Not Applicable

Section 15 – REGULATORY INFORMATION

All of the ingredients in the material are compliant with NICNAS regulations.
The following ingredient, Pyrethrin, is mentioned in the SUSD.P.

Section 16 – OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information. Since we cannot control the conditions under which the product may be used, each user must review this MSDS in the context of how the user intends to use the product.

END