

Safety Data Sheet

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Aiomist Pest Insect Control Aerosol 150g

Uses: Insect control aerosol

Company: Ardrich Limited

Address: 31 Hannigan Drive
St Johns, Auckland, 1072, NZ.

Telephone: +64 9 570 2861

Email: info@ardrich.net

Emergency Phone Number: 0800 802 861

National Poison Centre: 0800 764 766 (0800 POISON)

Section 2 – HAZARDS IDENTIFICATION

Product is classified as hazardous according to the *Hazardous Substance (Minimum Degrees of Hazard) Regulations 2001*, NZ.
Classified as a Dangerous Goods for transport purposes.

GHS Classification

Flammable aerosol	Category 1
Respiratory sensitisation	Category 1
Skin Sensitisation	Category 1
Aquatic toxicity (Acute)	Category 1
Aquatic toxicity (Chronic)	Category 1
Ecotoxic to terrestrial invertebrates	

HSNO Classification

2.1.2A	Extremely flammable aerosol
6.5A	Respiratory sensitiser
6.5B	Contact sensitiser
9.1A (All, F)	Very ecotoxic in the aquatic environment
9.1A (All, F)	Very ecotoxic in the aquatic environment
9.4A	Very ecotoxic to terrestrial invertebrates



Signal Words: Danger

Hazard Statement Codes

H222	Extremely flammable aerosol.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H441	Very toxic to terrestrial invertebrates.

Precautionary Statements

P102	Keep out of reach of children.
P103	Read label before use.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurised container: Do not pierce or burn, even after use.
P260	Do not breathe spray.

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P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Protective gloves may be worn.
P271	Use only in a well-ventilated area.
P285	In case of inadequate ventilation wear respiratory protection.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Naphtha (petroleum), heavy alkylate	64741-65-7	30 - 60
Piperonyl butoxide	63148-62-9	10 - 30
Pyrethrins I & II	8003-34-7	0 - 10
LPG - Hydrocarbon propellant (Propane, Butane)	68476-85-7	> 60
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.

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 present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Inhalation:	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.
Ingestion:	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 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: Get medical advice/ attention.
Notes to physician:	Treat symptomatically and supportively. No specific antidote.

Section 5 – FIRE-FIGHTING MEASURES

Further advice:	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. Use water spray to keep fire-exposed containers cool.
Extinguishing media:	For small fires, use dry chemical, carbon dioxide, water spray or foam. For large fires, use water spray, fog, or foam. Do NOT use straight streams of water.
Extinguishing media	Suitable extinguishing media: Powder. Foam. Water. Water spray. Carbon dioxide (CO ₂). Use water spray to cool fire-exposed containers. Do not discharge extinguishing waters into the aquatic environment. Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. May float and be re-ignited on surface water.
Protective equipment	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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Fire fighting instructions	In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. Water runoff can cause environmental damage.
Hazchem Code	2YE
General fire hazards	Flammable aerosol.
Specific methods	Use standard fire fighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Do not touch or walk through spilled material. Avoid breathing gas. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Other issues relating to spills Clean up in accordance with all applicable regulations.

Section 7 – HANDLING AND STORAGE

Handling Precautions Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded.

Avoid breathing gas. Avoid contact with skin. Avoid contact with eyes. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Follow standard monitoring procedures.

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

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Material	TWA, mg/m ³	STEL, mg/m ³
Naphtha (petroleum), heavy alkylate (supplier)	1200	-
Butane	1900	
Propane	Simple Asphyxiant	-
Pyrethrins	5	

Additional Information:	Wash hands before eating, drinking and smoking. Avoid breathing vapours/spray. In case of inadequate ventilation, wear respiratory protection.
Engineering Controls:	No controls required when handling small quantities. Use with adequate ventilation. Larger quantities: General exhaust is adequate under normal operating conditions. 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, colourless, 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 and storage. Not reactive. Avoid oxidisers. Avoid elevated temperatures.
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Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment:	Information given is based on product testing, and/or similar products, and/or components.
Acute Oral Toxicity:	Low toxicity: LD50 calculated to be > 5,000 mg/kg, Rat (based on component mixture).
Acute Dermal Toxicity:	Low toxicity: LD50 estimated to be > 5,000 mg/kg, Rabbit (based on component mixture).
Acute Inhalation Toxicity:	High concentrations of vapour 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.
Eye Irritation:	Vapours may be irritating to the eye.
Respiratory Irritation:	Inhalation of vapours or mists may cause irritation to the respiratory system.
Sensitisation:	Contains pyrethrins which are a contact and respiratory sensitiser.

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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.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity: Very toxic in aquatic environments and to terrestrial invertebrates.

Mobility: May float on water. Adsorbs to soil and has low mobility.

Persistence/degradability: Majority of components are expected to be inherently biodegradable. More volatile components expected to degrade rapidly in air.

Bioaccumulation: Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

Section 13 – DISPOSAL CONSIDERATIONS

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

Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of pressurised aerosols in landfills. Incineration by an authorised company is suggested.

Container Disposal: Recycle empty container if possible. Product containers are also considered wastes of the same class of the contents and should be disposed of in accordance with applicable regulations.

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 2.1 should not be loaded on the same vehicle as Classes 1, 3 (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: AEROSOLS

UN Number: 1950

Dangerous Goods Class: 2.1

Subsidiary Risk: Not Applicable

Packing Group: Not applicable

Marine Pollutant: Marine pollutant

EMS Number: F-D, SU

Section 15 – REGULATORY INFORMATION

HSNO Approval Number: HSR000352 Flammable aerosol containing 5.5 g/litre - 9 g/kg pyrethrins and 27.6 g/litre - 80 g/kg piperonyl butoxide.

APVMA Approval Number: 62543 Flammable aerosol containing 9 g/kg pyrethrins and 42.3 g/kg piperonyl butoxide.

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 SDS in the context of how the user intends to use the product.

End of sds.