Safety Data Sheet

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Identifier	**Airomist Pest Insect Control Aerosol 150g**
Product Code	AC93029
Recommended Use	Metered aerosol Insect control for wall dispenser
Restrictions on Use	None identified.
Manufacturer/Supplier	Ardrich Limited
Address	Suite 1A Level 2, 802 Pacific Highway
	Gordon NSW 2072, Australia
Telephone	1800 058 655
Email	info@ardrich.com.au
Emergency Phone Number	1800 058 655
National Poison Centre	13 1126 (Poisons Information Centre - from anywhere in Australia)

Section 2 – HAZARDS IDENTIFICATION

This material is hazardous according to classification of Safe Work Australia.

Classified as a dangerous good according to the Australian Code of Transport of Dangerous Goods by Road and Rail (ADG).

Classification of the Mixture

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	

Label Elements - Pictograms

Signal Words Danger

Hazard Statements

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.
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

Substance/mixture Mixture

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

Description of necessary 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.

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.

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.

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.

Symptoms caused by exposure Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Rash. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting are reversible if exposure is stopped.

Medical attention, treatment Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

Section 5 – FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Powder (dry chemical). Water spray. Alcohol resistant foam. Carbon dioxide (CO_2).

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.
Fire fighting instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. 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 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.

Occupational exposure limits No value assigned for this specific material. However, exposure standards for constituents;

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

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

Biological limit values No biological exposure limits noted for the ingredient(s).

Additional Information Wash hands before eating, drinking and smoking. Avoid breathing vapours/spray. In case of inadequate ventilation, wear respiratory protection.

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection Chemical resistant gloves are recommended. Avoid contact with clothing. Wear suitable protective clothing. Chemical resistant gloves.

Respiratory protection No personal respiratory protective equipment normally required. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or where air-purifying respirators may not provide adequate protection.

Thermal hazards Not applicable.

Hygiene measures When using, do not eat, drink or smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state Clear, colourless, volatile liquid.

pH Not applicable.

Odour Slight hydrocarbon

Odour Threshold Not established

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 (propellant)

Evaporation Rate Not Established

Explosive 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

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, flames and sparks. Aerosol containers are unstable at temperatures above 50°C. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Decomposition products	Carbon oxides.

Section 11 – TOXICOLOGICAL INFORMATION

Information on possible routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	May cause skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May be harmful if swallowed. However, ingestion is not likely to be a primary route of exposure.
Symptoms related to exposure	Irritating to eyes, respiratory system and skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Acute toxicity	Not expected to be acutely toxic.
Acute Oral Toxicity	LD50 - calculated to be > 5,000 mg/kg, Rat.
Acute Dermal Toxicity	LD50 - calculated to be > 2,000 mg/kg, Rat.
Inhalation Toxicity	Not determined.
Skin corrosion/irritation:	May cause skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Serious eye damage/irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitisation	Expected to be a respiratory sensitiser.
Skin sensitisation	Expected to be a skin sensitiser.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity	
Single exposure	Not classified.
Repeated exposure	Not classified.
Aspiration hazard	Not likely, due to the form of the product (aerosol). Solvent in formula is an aspiration hazard.
Chronic effects	Prolonged exposure may cause chronic effects.
Other information	Symptoms may be delayed.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity Very toxic in aquatic environments with long lasting effects. Toxic to terrestrial invertebrates (bees).

Persistence/degradability Not inherently biodegradable. More volatile components expected to degrade rapidly in air.

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

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

Section 13 – DISPOSAL CONSIDERATIONS

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Large quantities should be degassed by an aerosol recycler. Dispose of contents/container in accordance with local/regional/national/international regulations.

Residual waste Dispose of in accordance with local regulations. Empty containers may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.

Section 14 – TRANSPORT INFORMATION

Classified as a dangerous good by the criteria of the ADG code

Transport	Land Transport (ADG)	Sea Transport (IMDG / IMO)	Air Transport (IATA / ICAO)
UN Number	1950	1950	1950
UN Proper Shipping Name	AEROSOLS	AEROSOLS	AEROSOLS
Transport Hazard Class	2.1	2.1	2.1
Packing Group	None allocated	None allocated	None allocated
Subsidiary Risk	None	None	None

Environmental Hazards No information provided.

Hazchem code 2YE

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Marine Pollutant Yes

EMS F-D, S-U

ADG

IATA; IMDG; RID

Section 15 – REGULATORY INFORMATION

National regulations	This Material Safety Data Sheet was prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice, Safe Work Australia
Poisons Schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classifications	Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.
Inventory Listings	Australia: AICS (Australian Inventory of Chemicals) All components are listed on AICS, or are exempt.
APVMA Approval Number	62543 Flammable aerosol containing 9 g/kg pyrethrins and 42.3 g/kg piperonyl butoxide

Section 16 – OTHER INFORMATION

Additional information

Health Effects from Exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

AICS	Australian Inventory of Chemical Substances
ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS	Chemical Abstract Service number
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC_{50}	Lethal Concentration, 50% / Median Lethal Concentration
LD_{50}	Lethal Dose, 50% / Median Lethal Dose
LEL	Lower Explosion Limit
mg/m^3	Milligrams per Cubic Metre
NZIoC	New Zealand Inventory of Chemicals
N.O.S.	Not otherwise specified
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UEL	Upper Explosion Limit

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.