

Residual Insecticides

1. IDENTIFICATION OF THE MATERIAL AND THE MANUFACTURER

Product Name MAC SLAY SURFACE SPRAY RESIDUAL INSECTICIDE

MAC SLAY CRACK & CREVICE RESIDUAL INSECTICIDE W/TRIGGER

MAC SLAY FOGGER RESIDUAL INSECTICIDE

All formats: 500ml, 150g aerosols

Supplier Name Arandee Ltd

Address 108 Rockfield Road, Penrose, Auckland 1061, New Zealand

Telephone +64 (9) 579 5139

Emergency National Poisons Centre -24 hours Australia 13 11 26

New Zealand 0800 POISON

0800 764 766

E-mail <u>sales@arandee.co.nz</u>

Web Site http://www.arandee.co.nz

Synonym(s) MAC Slay, Residual Spray

Use(s) MAC Slay Residual Insecticides are (D-Phenothrin & Permethrin) a synthetic, pyrethroid mix

with high residual life and effective against insect pests. Used as residual insecticide in public health and border bio security control against mosquitoes, houseflies, fleas and cockroaches,

silverfish, carpet beetles etc. (Okuno et all, 1976).

Approval(s) Ministry of Primary Industries approved Type A (all meats including dairy)

Ministry of Primary Industries approved for use at approved at transitional facilities (for

disinsection of shipping containers)

Asure Quality approved Type A (including dairy)

Environmental Protection Authority HSR101386

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO GHS AND THE HAZARDOUS SUBSTANCES (MINIMUM DEGREE OF HAZARD) REGS 2001. CLASSIFIED AS A DANGEROUS GOOD, UNDER NZS 5433



Signal Word: DANGER

Flammable aerosol	Category 1
Skin sensitisation	Category 1
Respiratory sensitisation	Category 1
Specific Target Organ Systemic Toxicity (Repeat Exposure)	Category 2
Aquatic toxicity (Acute)	Category 1



Residual Insecticides

Case	Ecotoxic to terrestrial inverteb	rates	
6.5A Explicatory sensitisation 6.5B Contact sensitisation 6.9B Oral, Inhalation. Target organ systemic toxicity 9.1A Aquatic ecotoxicity 9.1A Aquatic ecotoxicity 9.1A Terrestrial invertebrate ecotoxicity 9.1A Aquatic ecotoxicity HAZARD STATEMENTS H223 Flammable aerosol H317 May cause an allergic skin reaction H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H371 May cause damage to organs H373 May cause damage to organs through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects Very toxic to terrestrial invertebrates PRECAUTIONARY P103 Read label before use Read label before use Read label before use Read label before use P210 Read Safety Data Sheet before use Read label before use P210 Read Safety Data Sheet before use P210 Read Safety Data Sheet before use P210 Read Safety Data Sheet before use P210 Avoid breathing spray P240 Wash hands thoroughly after handling P270 Do not eat, drink or smoke when using this product P272 Contaminated work clothing should not be allowed out of the workplace P273 Avoid release to the environment P280 Wear protective gloves P285 In case of inadequate ventilation wear respiratory protection RESPONSE P344 Get medical advice/attention if you feel unwell STATEMENTS P351 FON SKIN: Wash with plenty of soap and water P304-P341 FinNHALED: if breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing P303+P313 If skin irritation or rash occurs: Get medical advice/attention [P342+P311 If exposed or if you feel unwell: Call a POSION CENTER or doctor/physician P333-P313 If skin irritation or rash occurs: Get medical advice/attention [P422+P311 If experiencing respiratory symptoms. Call a POISON CENTER or doctor/physician FXTEMENTS P304-P412 Protect from sunlight. Do not expose to temperatures exceeding	DG Class	2.1.2A	Flammable Aerosol
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P363 Wash contaminated clothing before re-use P391 Collect spillage P302+P352 IF ON SKIN: Wash with plenty of soap and water P304+P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing P309+P311 IF exposed or if you feel unwell: Call a POSION CENTER or doctor/physician P333+P313 If skin irritation or rash occurs: Get medical advice/attention P342+P311 If experiencing respiratory symptoms. Call a POISON CENTER or doctor/physician STORAGE P405 Store locked up STATEMENTS P410+P412 Protect from sunlight. Do not expose to temperatures exceeding			,
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STATEMENTS P410+P412 Protect from sunlight. Do not expose to temperatures exceeding		P342+P311	
STATEMENTS P410+P412 Protect from sunlight. Do not expose to temperatures exceeding	STORAGE	P405	Store locked up
			Protect from sunlight. Do not expose to temperatures exceeding



Residual Insecticides

DISPOSAL P501 Dispose of in accordance with relevant local legislation

STATEMENTS

3. HAZARDS IDENTIFICATION COMPOSITION OF INGREDIENTS

Ingredient	Formula	Concentration	CAS Number
d-PHENOTHRIN	$C_{23}H_{26}O_3$	<5%	26046-85-5
PERMETHRIN	$C_{21}H_{20}CI_2O_3$	<5%	52645-53-1
ISOPARAFFINIC HYDROCARBON	Proprietary	<26%	Multiple
HYDROCARBON PROPELLANT BLEND	$C_2H_2F_4$	<70%	74-98-6
			106-97-8

4. FIRST AID MEASURES

Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Eye

Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

Leave area of exposure immediately. If irritation persists, seek medical attention. **Inhalation**

Gently flush affected areas with water. Seek medical attention, if irritation persists. Skin

Ingestion

For advice, contact a Poisons Information Centre on 0800 764 766 (0800 POISON) or +64 9 579 5139 (New Zealand) or a doctor. If swallowed, DO NOT induce vomiting, as ingestion is considered

unlikely, due to the product form.

Advice to Doctor Treat symptomatically.

First Aid Facilities Eye wash facilities should be provided.

5. FIRE FIGHTING MEASURES

Flammability Highly flammable. Vapours may form explosive mixtures with air. May evolve toxic gases (carbon

> oxides, hydrocarbons) when heated to decomposition temperatures. When handling a significant spillage, eliminate all ignition sources, including cigarettes, open flames, spark producing switches, heaters, naked lights, mobile phones, etc. Aerosol cans may explode when heated

above 50 ºC.

Fire and

Highly flammable, explosive vapour. Evacuate area and contact emergency services. Toxic gases may evolve, when heated. Remain upwind and notify those downwind of hazard. Wear full **Explosion**

protective equipment, including Self Contained Breathing Apparatus (SCBA), when combating fire.

Use waterfog to cool intact containers and nearby storage areas.

Dry agent, carbon dioxide foam, or water fog. Prevent contamination of drains or waterways; **Extinguishing**

absorb runoff with sand or similar.

HazChem 2Y



Residual Insecticides

6. ACCIDENTAL RELEASE MEASURES

Spillage If large quantities of cans are punctured (bulk), clear area of all unprotected personnel and

ventilate area. Wear splash-proof goggles, leather gloves, coveralls, and boots. Where inhalation risks exist, wear a Type A-Class P1 (Organic vapour and Particulate) respirator. Collect cans and allow to discharge outdoors. Absorb any residues with sand or similar and place in clean

containers for disposal. DO NOT wash away into sewer.

7. HANDLING AND STORAGE

Handling Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal

hygiene, including washing hands before eating. Keep out of the reach of children.

DO NOT puncture aerosol cans or incinerate, even when empty.

Storage Store in a cool, dry well ventilated area, well away from oxidising agents, acids, alkalis, direct

sunlight, heat or ignition sources, or foodstuffs. Ensure containers are adequately labelled, protected from physical damage, and sealed when not in use. Check regularly for leaks or spills.

Large storage areas should have appropriate fire protection.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation DO NOT directly inhale concentrated vapours. Use in well-ventilated areas. Mechanical extraction

ventilation is recommended for poorly ventilated area. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the

recommended exposure standard.

Exposure d-PHENOTHRIN – No TVL levels have been established by Worksafe.

Standards PERMETHRIN – No TVL levels have been established by Worksafe.

LIQUIFIED PETROLEUM GAS (LPG) (68476-85-7) TWA: 1800 mg/m³

Personal No personal protective equipment is required, normally. When an inhalation risk exists wear a Protection Type A-Class P1 (Organic vapour and Particulate) Respirator. With prolonged use, wear PVC or

Equipment rubber gloves and splash-proof goggles or safety glasses.





SAFETY DATA SHEET



MAC SLAY RESIDUAL INSECTICIDES SURFACE SPRAY / CRACK & CREVICE / FOGGER

Residual Insecticides

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOURLESS AEROSOL GAS Solubility (water) **DISPERSABLE Appearance** SLIGHT, ETHEREAL-LIKE 0.80 - 0.82 g/mL Odour Specific Gravity @25°C **ODOUR**

NOT AVAILABLE % Volatiles 100 %

pН **NOT AVAILABLE** HIGHLY FLAMMABLE **Vapour Pressure Flammability** > 1 (Air = 1) < 20 °C (Propellant) **Flash Point Vapour Density NOT AVAILABLE NOT AVAILABLE Melting Point Upper Explosion Limit NOT AVAILABLE NOT AVAILABLE Boiling Point Lower Explosion Limit** NOT AVAILABLE **NOT AVAILABLE Evaporation Rate Auto-ignition**

Temperature

STABILITY AND REACTIVITY 10.

Incompatible with oxidising agents (e.g. hypochlorite), alkalis, / alkali earth metals and finely Reactivity

divided metal powders (e.g. aluminium, barium, lithium), heat and ignition sources.

May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition **Decomposition**

temperatures. **Products**

Summary

TOXICOLOGICAL INFORMATION

Health Hazard General population. The exposure of the general population is expected to be low and is not likely

to present a hazard when it is used as recommended.

Occupational exposure. With reasonable work practices, hygiene measures and

Safety precautions is unlikely to be an occupational hazard.

Asphyxiant narcotic. This product may only present a hazard with direct eye contact, prolonged

and repeated skin contact or with vapour/gas inhalation at high levels.

Toxicity (Oral) $LD_{50} > 5000 \text{ mg/kg, Rat}$

Eye Low irritant. Contact may result in lacrimation, pain, redness, and conjunctivitis. Prolonged

contact may result in corneal burns, with possible permanent damage.

Inhalation Low to moderate Irritant, narcotic, asphyxiant. Over exposure may result in upper respiratory

tract irritation, nausea, and headache. At high levels; dizziness, breathing difficulties, and at very

high levels, anaesthesia, cardiac arrhythmias, pulmonary oedema and unconsciousness.

Skin Low irritant. Prolonged contact may result in irritation, redness, rash, dermatitis, and

sensitisation.

Exposure considered unlikely, due to product form as an aerosol. Under normal conditions of use, Ingestion

ingestion is considered a highly unlikely, exposure route.



Residual Insecticides

12. ECOLOGICAL INFORMATION

Acute Toxicity – LC₅₀, 96 hour: 0.0027mg/L Onchoryhncus mykiss (Rainbow Trout) – d-Phenothrin. LC₅₀,

Fish 96 hour: 0.1µg/L Onchoryhncus mykiss (Rainbow Trout) – Permethrin.

Chronic Toxicity – NOEC 1.1mg/L Onchoryhncus mykiss (Rainbow Trout) – d-Phenothrin.

Fish NOAEL 0.10ppb Cyprinodon variegatus (Sheepshead Minnow) – Permethrin.

Acute Toxicity – LC₅₀, 48 hour: 0.0043mg/L Daphnia magna – d-Phenothrin.

Aquatic LC₅₀, 48 hour: 0.55μg/L Ceriodaphnia dubia (Water Flea) – Permethrin.

Invertebrates

Chronic Toxicity – NOEC 0.47mg/L Daphnia magna – d-Phenothrin. **Aquatic** NOEC 0.039ppb Daphnia magna – Permethrin.

Invertebrates

Persistence & The degradability of the product is not known.

Degradability

Bioaccumulative No data available on Bioaccumulation.

Potential

Environment Environmental effects of the compound are extremely unlikely, due to packaging in the form of an

aerosol. Ensure appropriate measures are taken to prevent this product from entering the

environment through wastewater.

13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts, absorb contents with sand or similar and dispose of to an approved landfill

site. DO NOT puncture or incinerate aerosol cans. Contact the manufacturer for additional

information.

Legislation Dispose of in accordance with relevant, local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG AND HZNO CODES.

	Shipping Name	UN No	Packing	DG Class	Subsidiary Risk(s)
			Group		
Land	Compressed Gas	1950	None	2.1	None Allocated
	Flammable Aerosol		Allocated		
Sea	Compressed Gas	1950	Ш	2.1	None Allocated
	Flammable Aerosol				
Air	Compressed Gas	1950	None	2.1	None Allocated
	Flammable Aerosols		Allocated		

SAFETY DATA SHEET



MAC SLAY RESIDUAL INSECTICIDES SURFACE SPRAY / CRACK & CREVICE / FOGGER

Residual Insecticides

15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the

AICS Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

NZIOC All ingredients are listed on the New Zealand Inventory of Chemicals

NZEPA Approved HSR101386

MPI Type A approved for use with all meats (including dairy)

Approved for disinfection at Transitional Facilities of Shipping Containers

ASUREQUALITY Type A approved (including dairy)

16. OTHER INFORMATION

Additional Information

ASPHYXIANTS (1): reduce the oxygen concentration by displacement, when present in the atmospheres, in high concentrations. As most simple asphyxiants are odourless, atmospheres deficient in oxygen do not provide adequate sensory warning of danger. Therefore, it is not generally appropriate to recommend an exposure standard for each asphyxiant, but instead warn of the need to maintain oxygen concentrations.

Some asphyxiants may be given an exposure standard, due to their potential for narcotic effects at high concentrations, or an explosion hazard.

Asphyxiants (2)

There is a significant hazard associated with workers entering poorly, ventilated areas (e.g. tanks) where oxygen levels may be deficient. An air supplied breathing apparatus may be required if adequate ventilation is not ensured. Refer to AS/NZS 2865 - Safe Working in a Confined Space.

Respirators

In general, the best practice to avoid exposure is to use engineering controls, such as adequate ventilation, rather than the use of respirators (which should be limited).

If respiratory equipment must be worn, ensure correct respirator selection and training is undertaken. Some respirators may be extremely uncomfortable, when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

Abbreviations

Mg/kg -milligrams per kilogram

mg/m3 - milligrams per cubic metre

mg/L -milligrams per Litre ppb-Parts per Billion

NOEC -No Observed Effect Concentration NOAEL – No Observed Adverse Effect Level

 $\ensuremath{\mathsf{LD}_{50}}$ – Dosage that is lethal to 50% of the test population

 LC_{50} – Concentration that is lethal to 50%50% of the test population

TWA - Time Weighted Average

CAS# - Chemical Abstract Service number - uniquely identifies chemical compounds.

NZEPA - New Zealand Environmental Protection Authority

MPI – New Zealand Ministry of Primary Industries NZIOC – New Zealand Inventory of Chemicals

WES – Workplace Exposure Standard

SAFETY DATA SHEET



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Personal Protective Equipment The recommendations for protective equipment contained within this SDS report are provided as a guide only, when dealing with an abnormal situation. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered, before the final selection of personal protective equipment is made.

Health Effects from Exposure

It should be noted that the effects from excess exposure to this product would depend on several factors, including duration of exposure, quantity involved, effectiveness of control measures used; protective equipment and method of application. Given that, it is impractical to prepare an SDS report, which would encompass all possible scenarios, it is anticipated that users will assess the risks in an emergency and apply appropriate control methods.

Report Status

This report is based upon information provided by ingredient manufacturers, and third party experts. We believe that the information represents the current state of knowledge about safety and handling precautions that are appropriate for this product. Further clarification regarding any aspect of the product should be obtained directly from the Chief Chemist at Arandee Ltd. While Arandee has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy, or completeness. As far as lawfully possible, Arandee accepts no liability for any loss, injury, or damage (including consequential loss) which may be suffered, or incurred by any person, because of their reliance upon the information contained in this Safety Data Sheet.