

MAC SLAY NATURAL INSECTICIDE

Natural Pyrethrin Insecticide

1. IDENTIFICATION OF THE MATERIAL AND THE MANUFACTURER

Product Name MAC SLAY NATURAL PYRETHRIN INSECTICIDE

The forms of automatic dispenser refill and multishot aerosols (80ml - 600ml)

Supplier Name Arandee Ltd

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

Telephone +64 (9) 579 5139

Emergency National Poisons Centre -24 hours

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0800 764 766

Website http://www.arandee.co.nz

Synonym(s) MAC Slay, MAC Slay Natural, SLAYNA2A, SLAYNA3A, SLAYNA4A, SLAYNA5D

Use(s) Formulated with pyrethrum, a natural pyrethrin extracted from Chrysanthemum Daisies. Flushes and repels

unwanted insects. Causes a phototropic response.

2. HAZARD(S) IDENTIFICATION

AUSTRALIA: CLASSIFIED AS HAZARDOUS ACCORDING TO THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) INLCUDING WORK, HEALTH AND SAFETY REGULATIONS, AUSTRALIA

NEW ZEALAND: THIS SUBSTANCE IS HAZARDOUS ACCORDING TO THE EPA HZARDOUS SUBSTANCES (CLASSIFICATION) NOTICE 2020

Hazard Pictograms







Signal Word DANGER

Physical Hazard Aerosol: Category 1

Health Hazards NA

Environmental Hazards Aquatic acute: Category 1

Aquatic chronic: Category 1

Hazardous to terrestrial invertebrates

GHS Classification and Category	Code	Statement
Hazard Code	H317	May cause 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
	H441	Very toxic to terrestrial invertebrates
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects
	H441	Hazardous to terrestrial invertebrates.
Prevention Code	P102	Keep out of reach of children.
	P103	Read label before use.
	P210	Keep away from heat, hot surfaces, sparks open flames and other ignition
		sources. No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
	P260	Do not breathe spray.



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	P261	Avoid breathing spray.				
	P264	Wash hands thoroughly after handling.				
	P272	Contaminated work clothing should not be allowed of the workplace.				
	P273	Avoid release to the environment.				
	P280	Wear eye protection.				
	P280	Wear protective gloves.				
Response Code	P101	If medical advice is needed, have product container or label at hand.				
	P302+P352	IF ON SKIN: Wash with plenty of water.				
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
	P305+P351+P3	P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact				
		lenses, if present and easy to do. Continue rinsing.				
	P314	Get medical advice/attention if you feel unwell.				
	P321	Specific treatment				
	P333+P313	If Skin irritation or rash occurs: Get medical advice/attention.				
	P337	If eye irritation persists: Get medical advice/attention.				
	P342+P311	If experiencing respiratory symptoms: Call a doctor or POISON CENTER				
	P362+P364	Take off contaminated clothing and wash it before reuse.				
	P391	Collect spillage.				
Storage Code	P410	Protect from sunlight.				
	P412	Do not expose to temperatures exceeding 50°C.				
Disposal Code	P501	Dispose of in accordance with relevant local regulations.				

3. HAZARD(S) IDENTIFICATION COMPOSITION OF INGREDIENTS

Name	% Weight	CAS Number
HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS	10-40	64742-48-9
PIPERONYL BUTOXIDE	1-5	51-03-6
PYRETHRUM	0.05-1	8003-34-7
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	BALANCE	

4. FIRST AID MEASURES

If in EyesRinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.If on SkinWash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.If SwallowedDo not induce vomiting. Wash out mouth thorough with water. Never give anything to the

mouth of unconscious person. Seek medical attention if needed.

If Inhaled Remove person to fresh air. Keep at rest until fully recovered. Get medical advice if breathing becomes

difficult.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Notes to Doctor Treat symptomatically

5. FIRE FIGHTING MEASURES

Hazard Type Extremely flammable aerosol. Vapours may form explosive mixtures with air.

Hazards from combustion

products

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°C.

Suitable Extinguishing

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

runoff with sand or similar.

Precautions for firefighters

and special protective

clothing

2YE





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6. ACCIDENTAL RELEASE MEASURES

For emergency responders Wear protective equipment as detailed in Section 8. Where inhalation risks exist, wear a Type A-Class P1

(Organic vapour and Particulate) respirator. If large quantities of cans are punctured (bulk), clear area of

all unprotected personnel and ventilate area.

Environmental precautions

Keep product away from drains, surface and underground water.

Method and material for containment and cleaning

up

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. For any concern related to disposal consult

section 13.

7. HANDLING AND STORAGE

Precautions for Handling Read carefully and follow all instructions.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Avoid release to the environment (if this is not the intended use). Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating.

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

Precautions for Storage Keep out of the reach of children.

Do not expose to temperatures exceeding 50°C.

Protect from sunlight.

Store in a cool, dry well-ventilated area, well away from oxidising agents, acids, alkalis.

Ensure containers are adequately labelled, protected from physical damage, and sealed when not in

use.

Check regularly for leaks and spills.

Large storage areas should have appropriate fire protection.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Source	Ingredient	Material Name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	Hydrocarbons, C11- C13 isoalkanes, <2% aromatics	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	(om) – Sampled by a method that does not collect vapour.
New Zealand Workplace Exposure Standards (WES)	Pyrethrum	Pyrethrum	5 mg/m3	Not Available	Not Available	(sen) –

EMERGENCY LIMITS

Ingredient	Material Name	TEEL-1	TEEL-2	TEEL-3
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	350 gm/m3	1,800 mg/m3	40.000 mg/m3
piperonyl butoxide	Piperonyl butoxide	6.5 m3/m3	72 mg/m3	1,200 mg/m3

Ingredient	Original IDLH	Revised IDLH
Hydrocarbons, C11-C13 isoalkanes, <2% aromatics	2,500 mg/m3	Not Available
Piperonyl butoxide	Not Available	Not Available
Pyrethrum	5,000 mg/m3	Not Available

Engineering Controls 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



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distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure

standard.

Personal Protection Equipment



No personal protective equipment is required for normally use. In bulk or industrial setting wear splash-

proof goggles or safety glasses.

Skin No personal protective equipment is required for normally use. In bulk or industrial setting wear PVC or

rubber gloves.

Respiratory No personal protective equipment is required, normally. When an inhalation risk exist wear a Type A-

Class P1 (Organic vapour and Particulate) Respirator.

General

Eyes

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	AEROSOL GAS	Vapour Density	-1 (AIR=1)
Colour	COLOURLESS	Vapour Pressure	NOT AVAILABLE
Odour	SLIGHT, ETHERAL-LIKE	Upper and Lower Explosion Limit	NOT AVAILABLE
Odour Threshold	NOT AVAILABLE	Specific Gravity	0.80-0.82 g/ml
pH	NOT AVAILABLE	Water Solubility	DISPERSABLE
Boiling Point	NOT AVAILABLE	Partition Coefficient	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Auto-igntion	NOT AVAILABLE
Freezing Point	NOT AVAIALBLE	Decomposition Temperature	NOT AVAILABLE
Flash Point	<20°C (PROPELLENT)	Kinematic Viscosity	NOT AVAILABLE
Flammability	HIGHLY FLAMMABLE	% Volatiles	100%

10. STABILITY AND REACTIVITY

Stability of Substance This product is stable under normal conditions.

Possibility of hazardous

reactions

No data available.

Conditions to Avoid Heat and ignition sources.

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

metal powders (e.g., aluminium, barium, lithium).

Hazardous Decomposition

Products

 $\label{thm:mayevolve} \mbox{May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition temperatures.}$

11. TOXICOLOGICAL INFORMATION

Health Summary 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. 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.

Acute Effects

Swallowed This product is not classified as acutely toxic. Exposure considered unlikely due to product from as an

aerosol. Under normal conditions of use, ingestion is considered a highly unlikely, exposure route. LD50

= > 5000mg/kg, Rat

Dermal This product is not classified as acutely toxic.



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Inhalation This product is not classified as acutely toxic. 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.

Eye This product is not classified an eye irritant/corrosive. Low irritant. Contact may result in lacrimation,

pain, redness and conjunctivitis. Prolonged contact may result in corneal burns, with possible permanent

damage.

Skin This product is not classified as a skin irritant/corrosive. Low irritant. Prolonged contact may result in

irritation, redness, rash, dermatitis and sensitisation.

Chronic Effects

Carcinogenicity This product is not classified as carcinogenic.

Reproductive Toxicity This product is not classified as toxic for reproduction.

Germ Cell Mutagenicity
Aspiration
STOT/SE
STOT/RE
This product is not classified as mutagenic.
This product is not classified as Asp Tox.
This product is not classified as STOT SE.
This product is not classified as STOT RE.

12. ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects. Hazardous to terrestrial invertebrates.

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.

Product

Persistence and

No data available

degradability

Bioaccumulation No data available

Mobility in Soil No data available

Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

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

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Flammable, Exotoxic" and that the label also has the Flammable, Ecotoxic Pictogram, waste type

identifier, and the business name, address, and the phone number.

Legislation Dispose of in accordance with relevant, local legislation.

Precautions or methods to

avoid

Avoid release to the environment. DO NOT puncture or incinerate aerosol cans.

14. TRANSPORT INFORMATION

THIS PRODUCT IS CLASSIFIED AS A DANGEROUS GOODS FOR TRANSPORT IN NZ; NZS 5433:2020 AND SNZ HB 5433:2021

	Shipping Name	UN No	Packing Group	DG Class	Subsidiary Risk(s)	EPG
LAND TRANSPORT (HZNO)	AEROSOLS	1950	None Allocated	2.1	None Allocated	
SEA TRANSPORT (IMDG/IMO)	AEROSOSLS	1950	Ш	2.1	None Allocated	
AIR TRANSPORT IATA/ICAO)	AEROSOLS	1950	None Allocated	2.1	None Allocated	

Special precautions for user

Transport within user's premises: always transport in closed containers that are upreight and secure. Ensure that persons transporting the product know what to do in thre even of an accident or spillage

Shipping Label



Special Precautions Hazchem code: 2YE



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15. REGULATORY INFORMATION

This substance is classified as hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

MPI Type A (All animal products excluding dairy) **NZEPA** Approved pursuant to the HSNO Act 1996,

Approval No. HSR101271

HSW (HS) Regulations 2017

and EPA Notices

Location Certificate

Trigger Quantity

Certified Handler

3000L (AWC)

No

Tracking Trigger Quantities

Not required.

Signage Trigger Quantities **Emergency Response Plan**

100L 100L

Secondary Containment 100L

Restriction of Use Only use for the intended purpose. Refer to EPA website for full controls document.

OTHER INFORMATION 16.

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

FC50 Environmental Exposure Limit. **EEL Environmental Protection Authority.**

EPA Hazardous Substances and New Organisms.

HSNO Health and Safety at Work.

HSW Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LC50 Lethal dose to kill 50% of test animals/organisms.

LD50 Lower explosive level.

LEL No Observed Effect Concentration. **NOEC** No Observed Adverse Effect Level.

NOAEL American Occupational Safety and Health Administration.

OSHA Tolerable Exposure Limit. TEL Time Weighted Average.

TWA Threshold Limit Value-an exposure limit set by responsible authority.

TLV Upper Explosive Level. UEL Workplace Exposure Limit.

WES Chemical Abstract Service number – uniquely identifies chemical compounds.

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



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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.