

**MAC SLAY MAX COCKROACH
& CRAWLING INSECT INSECTICIDE**

Public Health Insecticide for Crawling Insects

1. IDENTIFICATION OF THE MATERIAL AND THE MANUFACTURER

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|----------------------|--|--------------------------|---|
| Product Name | MAC SLAY MAX COCKROACH & CRAWLING INSECT INSECTICIDE The forms of multishot aerosol (500ml) | | |
| 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 New Zealand | 13 11 26 0800 POISON 0800 764 766 |
| E-mail | sales@arandee.co.nz | | |
| Website | http://www.arandee.co.nz | | |
| Synonym(s) | MAC Slay; MAC Slay MAX | | |
| Use(s) | Application is by spray atomisation from a handheld aerosol pack. Use according to manufacturer's directions. | | |

2. HAZARD(S) IDENTIFICATION

AUSTRALIA: CLASSIFIED AS HAZARDOUS ACCORDING TO THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) INCLUDING WORK, HEALTH AND SAFETY REGULATIONS, AUSTRALIA
NEW ZEALAND: THIS SUBSTANCE IS HAZARDOUS ACCORDING TO THE EPA HAZARDOUS SUBSTANCES (CLASSIFICATION) NOTICE 2020

Hazard Pictograms

| | |
|------------------------------|--|
| Signal Word | DANGER |
| Physical Hazard | Aerosol: Category 1 |
| Health Hazards | Skin sensitiser: Category 1 Respiratory sensitiser: Category 2 |
| Environmental Hazards | Aquatic acute: Category 1 Aquatic chronic: Category 1 Hazardous to terrestrial invertebrates |

| GHS Classification and Category | Code | Statement |
|--|-------------|--|
| Hazard Code | H222 | Extremely flammable aerosol. |
| | H229 | Pressurised container: May burst if heated. |
| | H317 | May cause an allergic skin reaction. |
| | H361 | Suspected of damaging fertility or the unborn child |
| | H400 | Pressurised container: May burst if heated. |
| | H410 | Very toxic to aquatic life with long lasting effects. |
| | H441 | Very toxic to aquatic life with very long lasting effects. |

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| Prevention Code | P102 | Hazardous to terrestrial invertebrates. |
| | P103 | Keep out of reach of children. |
| | P201 | Obtain special instructions before use. |
| | P202 | Do not handle until all safety precautions have been read and understood. |
| | P210 | Read label before use. |
| | P211 | Do not spray on an open flame or other ignition source. |
| | P251 | Do not pierce or burn, even after use. |
| | P261 | Avoid breathing spray. |
| | P272 | Contaminated work clothing should not be allowed of the workplace. |
| | P273 | Avoid release to the environment. |

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| Response Code | P280 | Wear protective gloves. |
| | P280 | Wear Eye protection. |
| | P101 | If medical advice is needed, have product container or label at hand. |
| | P302+P352 | IF ON SKIN: Wash with plenty of water. |
| | P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| | P321 | Specific treatment |
| Storage Code | P333+P313 | If Skin irritation or rash occurs: Get medical advice/attention. |
| | P362+P364 | Take off contaminated clothing and wash it before reuse. |
| | P391 | Collect spillage. |
| | P405 | Store locked up. |
| Disposal Code | P410 | Protect from sunlight. |
| | P412 | Do not expose to temperatures exceeding 50°C. |
| | P501 | Dispose of in accordance with relevant local regulations. |

3. HAZARDS IDENTIFICATION COMPOSITION OF INGREDIENTS

| Ingredient | Weight % | CAS No. |
|--|----------|------------|
| NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED | <20 | 64742-48-9 |
| CYPERMETHRIN | <1 | 52315-07-8 |
| IMIPROTHRIN | <1 | 72963-72-5 |
| HYDROCARBON PROPELLANT | <75 | 68476-85-7 |

4. FIRST AID MEASURES**Routes of Exposure**

| | |
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| If in Eyes | Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice. |
| If on Skin | Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. |
| If Swallowed | Do 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

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|---|--|
| 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 Media | 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 | Wear full protective equipment, including self contained breathing apparatus (SCBA), when combating fire. Use waterfog to cool intact containers and nearby storage areas. Evacuate area and contact emergency services. Toxic gases may evolve, when heated. Remain upwind and notify those downwind of hazard. |
| HAZCHEM CODE | 2YE |

6. ACCIDENTAL RELEASE MEASURES

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| 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 |
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Environmental precautions**Method and material for
containment and cleaning up**

area of all unprotected personnel and ventilate area.

Keep product away from drains, surface and underground water.

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**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)****INGREDIENT DATA****Ingredient****Occupational Exposure Band
Rating****Occupational Exposure Band Limit****Cypermethrin**

E

≤ 0.01 mg/m³**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 distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

Personal Protection Equipment**Eyes**

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State | AEROSOL. | Vapour Density | > 1 (Air = 1) |
|----------------|--------------------------|---------------------------|-----------------------|
| Colour | CLEAR | Upper Explosion Limit | NO DATA AVAILABLE |
| Odour | SLIGHT, ETHER-LIKE ODOUR | Lower Explosion Limit | NO DATA AVAILABLE |
| pH | 7.0 | Solubility | SOLUBLE IN WATER |
| Melting Point | NO DATA AVAILABLE | Specific Gravity @ 25°C | 0.90 g/mL – 1000 g/mL |
| Boiling Point | NO DATA AVAILABLE | Kinematic Viscosity | NO DATA AVAILABLE |
| Flash Point | < 20 °C (PROPELLANT) | Auto-ignition Temperature | NO DATA AVAILABLE |

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|------------------------|-------------------|----------------------------------|-------------------|
| Flammability | NO DATA AVAILABLE | Decomposition Temperature | NO DATA AVAILABLE |
| Vapour Pressure | NO DATA AVAILABLE | Partition Coefficient | NO DATA AVAILABLE |

10. STABILITY AND REACTIVITY

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|---|--|
| 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 | May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition temperatures. |

11. TOXICOLOGICAL INFORMATION

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|--|--|
| 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 Inhalation | This product is not classified as acutely toxic. 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 | This product is not classified as mutagenic. |
| Aspiration | This product is not classified as Asp Tox. |
| STOT/SE | This product is not classified as STOT SE. |
| STOT/RE | This product is not classified as STOT RE. |

| | TOXICITY | IRRITATION |
|--|---|---|
| MAC Slay MAX Insecticide | Not Available | Not Available |
| naptha petroleum, isoparaffin, hydrotreated | TOXICITY Dermal (rabbit LD ₅₀ : 1900 mg/kg [1] Inhalation (Rat) LC ₅₀ : >4.42 mg/L4h [1] Oral (Rat) LD ₅₀ : >4500 mg/kg [1] | IRRITATION Eye: no adverse effect observed (not irritating) [1] Skin: adverse effect observed (irritating) [1] |
| cypermethrin | TOXICITY Dermal (Rat) LD ₅₀ : >1600 mg/kg [2] Inhalation (Rat) LC ₅₀ : 7.889 mg/L4h [2] Oral (Mouse) LD ₅₀ : 24.57 mg/kg [2] | IRRITATION Eye (Rabbit): mild* Skin (Rabbit): non-irritating* |
| imiprothrin | TOXICITY Dermal (Rat) LD ₅₀ : 2000 mg/kg [2] | IRRITATION Eye (Rabbit): non-irritating* |

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Oral (Rat) LD₅₀; 900 mg/kg [2]Eye (Rabbit): non-irritating*
Skin (Rabbit): non-irritating*
Skin (Rabbit): non-irritating*

hydrocarbon propellant

TOXICITYInhalation (Rat) LC₅₀; 658 mg/L_{4h} [2]**IRRITATION**

Not Available

12. ECOLOGICAL INFORMATION

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|---|-------------------------------------|--------------------|-------------------------------|-----------------|---------------|
| MAC Slay MAX Cockroach & Crawling Insect Insecticide | Not Available | Not Available | Not Available | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| naptha petroleum, isoparaffin, hydrotreated | EC ₅₀ (EC _x) | 96h | Algae or other aquatic plants | 64mg/L | 2 |
| | EC ₅₀ | 96h | Algae or other aquatic plants | 64mg/L | 2 |
| cypermethrin | Endpoint | Test Duration (hr) | Species | Value | Source |
| | | 504h | | | |
| | NOEC(EC _x) | 72h | Crustacea | <0.001 mg/L | 4 |
| | EC ₅₀ | 48h | Algae or other aquatic plants | 120.42mg/L | 4 |
| | EC ₅₀ | 96h | Crustacea | <0.001mg/L | 4 |
| | LC ₅₀ | 96h | Fish | <0.001mg/L | 4 |
| imiprothrin | EC ₅₀ | 96h | Algae or other aquatic plants | 112.45mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | | 1h | | | |
| | EC ₅₀ (EC _x) | 72h | Crustacea | 0.051mg/L | Not Available |
| | EC ₅₀ | 48h | Algae or other aquatic plants | 3.1mg/L | 2 |
| hydrocarbon propellant | EC ₅₀ | 96h | Crustacea | 0.03-0.082mg/L | 4 |
| | LC ₅₀ | 96h | Fish | 0.021-0.062mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | | 96h | | | |
| | EC ₅₀ (EC _x) | 96h | Algae or other aquatic plants | 7.71mg/L | 2 |
| | LC ₅₀ | 96h | Fish | 24.11mg/L | 2 |
| | EC ₅₀ | 96h | Algae or other aquatic plants | 7.71mg/L | 2 |
| | EC ₅₀ (EC _x) | 96h | Algae or other aquatic plants | 7.71mg/L | 2 |
| | LC ₅₀ | 96h | Fish | 24.11mg/L | 2 |
| | EC ₅₀ | 96h | Algae or other aquatic Plants | 7.71mg/L | 2 |

Legend

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances – Ecotoxicological Information – Aquatic Toxicity 4. US EPA Ecotox Database – Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) – Bioconcentration Data 7. METI (Japan) – Bioconcentration Data 8. Vendor Data
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
DO NOT discharge into sewer or waterways.

Persistence and Degradability Cypermethrin

Persistence Water/Soil HIGH
Persistence in Air HIGH
Bioaccumulative potential HIGH (LogKOW = 6.3752)
Mobility in Soil LOW (K_{OC} = 108000)

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,

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| Legislation | Exotoxic" and that the label also has the Flammable, Ecotoxic Pictogram, waste type identifier, and the business name, address, and the phone number. |
| Precautions or methods to avoid | Dispose of in accordance with relevant, local legislation. 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) |
|----------------------------------|---------------|-------|----------------|----------|--------------------|
| LAND TRANSPORT | AEROSOLS | 1950 | None Allocated | 2.1 | None Allocated |
| SEA TRANSPORT (IMDG/IMO) | AEROSOLS | 1950 | III | 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 upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage**Shipping Label****Special Precautions** **Hazchem code: 2YE****15. REGULATORY INFORMATION****This substance is classified as hazardous according to the EPA Hazardous Substances (Classification) Notice 2020**

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| MPI | Type A (All animal products excluding dairy) |
| NZEPA | Approved pursuant to the HSNO Act 1996, Approval No. HSR101224 |
| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
| Certified Handler | No |
| Location Certificate | 3000L (AWC) |
| Tracking Trigger Quantities | Not required. |
| Signage Trigger Quantities | 100L |
| Emergency Response Plan | 100L |
| Secondary Containment | 100L |
| Restriction of Use | Only use for the intended purpose. Refer to EPA website for full controls document. |

16. OTHER INFORMATION

| | |
|--------------|---|
| CAS # | Chemical Abstract Service number – uniquely identifies chemical compounds. |
| EC50 | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority. |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| LC50 | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD50 | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| NOEC | No Observed Effect Concentration. |

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|--------------|---|
| NOAEL | No Observed Adverse Effect Level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TWA | Time Weighted Average. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level. |
| WES | Workplace Exposure Limit. |

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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. |
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| 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. |
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| 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. |
|----------------------|--|