


AIM

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

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| Product Name: | AIM |
| Product Code: | 7928083 (500g) |
| Recommended Use: | Selective herbicide for the control of broadleaf weeds in new & established pasture, chicory, clover and Lucerne. |
| Restrictions of Use: | Refer to Section 15 |
| Company Identification: | Ravensdown Limited |
| Address: | 292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011 |
| Customer Centre: | 0800 100 123 |
| National Poisons Information Centre: | 0800 POISON (0800 764 766) |
| Emergency Phone Number: | 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only) |
| Transport Emergency Phone Number: | 111 - tell operator what service is needed: Fire, Ambulance or Police |
| Date of SDS Preparation | 15 April 2024 v2 |

Section 2: HAZARD IDENTIFICATION

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

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|-------------------------|---|
| EPA Approval No: | HSR000458 |
| Pictograms: |  |
| Signal Word: | Warning |

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|-------------|---|
| Hazardous to the aquatic environment acute Cat. 1 | H400 | Very toxic to aquatic life. |
| Hazardous to the aquatic environment chronic Cat. 1 | H410 | Very toxic to aquatic life with long lasting effects. |
| Hazardous to soil organisms. | H421 | Hazardous to soil organisms. |

| Prevention Code | Prevention Statement |
|-----------------|---|
| P273 | Avoid release to the environment [if this is not the intended use]. |
| Response Code | Response Statement |
| P391 | Collect spillage. |
| Storage Code | Storage Statement |
| None allocated | |
| Disposal Code | Disposal Statement |
| P501 | Dispose of according to Local Regulations or Authorities |

Section 3: COMPOSITION INFORMATION

| INGREDIENT | CAS No. | CONTENT |
|-------------------|-------------|-----------|
| flumetsulam | 98967-40-9 | 80% |
| Other ingredients | proprietary | remainder |

Section 4: FIRST AID MEASURES

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| Routes of Exposure: | |
| If in eyes: | Flush with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance if necessary. |
| If on skin: | Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected: Get medical advice/attention. |
| If ingested: | Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately. |
| If inhaled: | Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately. |
| Most important symptoms and effects, both acute and delayed | |
| Symptoms: | |
| Eyes: | Not applicable. |
| Skin: | Not applicable. |
| Ingested: | Not applicable. |
| Inhaled: | Not applicable. |
| Chronic: | Not applicable. |
| Notes to Doctor: | No specific antidote. Treat symptomatically |

Section 5: FIRE FIGHTING MEASURES

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| Hazard Type | Non Flammable |
| Hazards from combustion products | If involved in a fire may evolve noxious fumes of oxides of nitrogen, sulfur and halogen derivatives. |
| Suitable Extinguishing media | Water fog, foam, carbon dioxide or dry chemical. |
| Precautions for firefighters and special protective clothing | Full protective clothing and self-contained breathing apparatus. Contain runoff. |
| HAZCHEM CODE | 2Z |

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

Environmental precautions:

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Methods and material for containment and cleaning up:

Sweep up solids without generating dust. Contain liquid spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill and of according to Section 13.

Section 7: HANDLING AND STORAGE

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| Handling: | Read label before use. Avoid contact with skin, eyes and inhalation of spray mist. Avoid release to the environment. Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept where more than 3kg of this product is used within 24hrs in a place where the pesticide is likely to enter air or water and leave the place. |
| Storage: | Keep out of reach of children. Store away from incompatible materials listed in Section 10. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409 Management of Agrichemicals. Do not store with classes 1 or 5 substances. This product is subject to signage when stored in quantities of 100kg or more, either alone or in aggregate with substances of the same hazard classification. More than 100kg requires emergency response plans. For full details refer to NZS 8409 Management of Agrichemicals and HSWA Regulations. |

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA ppm mg/m ³ | STEL ppm mg/m ³ |
|-----------|------------------------------|-------------------------------|
|-----------|------------------------------|-------------------------------|

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

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| Engineering Controls: | Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist. |
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Personal Protection Equipment:



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| Eyes: | When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles. |
| Skin/Hands: | When opening the container, preparing spray and when contact with concentrate or solution is likely, wear chemically resistant gloves, cotton overalls buttoned to the neck and wrist and boots. |
| Respiratory: | Respirator is not required where dust or spray mist is not inhaled. Otherwise a suitable respirator is required. |
| General: | Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Granules |
| Colour | Brown |
| Odour | Non-specific |
| Odour Threshold | Not available |
| pH | Not available |
| Boiling Point | Not available |
| Melting Point | Not available |
| Freezing Point | Not available |
| Flash Point | Not available |
| Flammability | Not flammable |
| Upper and Lower Explosive Limits | Not available |
| Vapour Pressure | Not available |
| Vapour Density | Not available |
| Specific Gravity | 0.77 g/ml (approx.) |
| Bulk Density | Not available |
| Water Solubility | Disperses in water |
| Partition Coefficient: | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Kinematic Viscosity | Not available |
| Other information | (WDG) Water Dispersible Granule |

Section 10: STABILITY AND REACTIVITY

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| Stability of Substance | When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. |
| Possibility of hazardous reactions | Not available. |
| Conditions to Avoid | None known. |
| Incompatible Materials | Avoid contact with strong alkalis, acid and oxidising agents. |
| Hazardous Decomposition Products | None known. Refer to Section 5. |

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

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| Swallowed | Not applicable. LD ₅₀ (rat) >5000mg/kg for flumetsulam |
| Dermal | Not applicable. LD ₅₀ (rabbit) >2000mg/kg for flumetsulam |

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|-------------------|--|
| Inhalation | Not applicable. LC ₅₀ (rat) (4hr) 1.2mg/l for flumetsulam |
| Eye | Not applicable. Slightly irritating to rabbits for flumetsulam. |
| Skin | Not applicable. |

Chronic Effects:

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|-------------------------------|-----------------|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Other information

The Australian Acceptable Daily Intake (ADI) for flumetsulam for a human is 1mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 100 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety and Environmental Health, 'ADI List', June 2011).

Section 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms

Product:

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| Persistence and degradability/Mobility | Availability of flumetsulam in soil is dependent on pH and organic matter. Herbicidal activity increases as pH decreases and organic matter decreases. Soil DT50 = < 1 month, @ pH>7, o.m.<4% Soil DT50 = 1-2 months @ pH 6-7, o.m. 2-4%. |
| Bioaccumulation | No data available. |
| Other adverse effects | Avoid unintended release into streams and waterways. |

Ecotoxicity:

Acute Toxicity (fish) (flumetsulam)

LC₅₀ (minnow) (96hr) >379mg/l

Acute Toxicity (daphnia) (flumetsulam)

EC₅₀ (48hr) 254mg/l

Very ecotoxic in the aquatic environment

Acute Toxicity (birds)

LD₅₀ (bobtail quail) 0.5620mg/kg

Non-toxic to birds

Acute Toxicity (bees)

LD₅₀ >100ug/bee

Non-toxic to bees

Section 13: DISPOSAL INFORMATION

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| Disposal Method: | Triple rinse container and add rinsate to the spray tank. Dispose of product only by using in accordance with label directions, or through Agrecovery Chemical Recovery Service or alternative approved programs. |
| Container Disposal: | Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for free recycling. Otherwise crush and bury in an approved landfill. Do not burn. Do not use container for any other purpose. |
| Precautions or methods to avoid: | Do not allow product or empty container to contaminate any waterway. |

Section 14: TRANSPORT INFORMATION

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



Road, Rail, Sea and Air Transport

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| UN No | 3077 |
| Class - Primary | 9 |
| Packing Group | III |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (flumetsulam) |
| Marine Pollutant | Yes |
| Special Provisions | If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG. |

Section 15: REGULATORY INFORMATION

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

EPA Approval Code: HSR000458

| HSW (HS) Regulations 2017 | Trigger Quantity |
|--|---|
| Signage Trigger Quantities (Schedule 3) | 100 kg |
| Emergency Response Plan (Schedule 5) | 100 kg |
| Secondary Containment (Schedule 5) | 100 kg |
| Tracking (Schedule 26) | Not required |
| Certified Handlers | Not required |
| HSNO Additional Controls (Restrictions of use) | |
| 77A - | The substance must not be applied onto or into water. |
| ACVM Act and Regulations | |
| See www.foodsafety.govt.nz for registration conditions | P8611 |

Section 16: OTHER INFORMATION

Glossary

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| EC ₅₀ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| LC ₅₀ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD ₅₀ | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Ravensdown, if further information is required.

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