


AGPRO Mesotrione 480SC

1. SUBSTANCE IDENTIFICATION

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| SUPPLIER NAME | AGPRO NZ Limited |
| SUPPLIER ADDRESS | 10 Polaris Place, East Tamaki, Auckland |
| SUPPLIER CONTACT DETAILS | 09 273 3456 or freephone 0508 536 536 www.agpro.co.nz |
| EMERGENCY PHONE | |
| POISON INFORMATION | 0800 POISON (0800 764 766) 24 hours |
| CHEMICAL EMERGENCY | 0800 CHEMCALL (0800 243 622) 24 hours |
| ACTIVE INGREDIENT(S) AND PRESENTATION | Contains 480 g/L Mesotrione in the form of a suspension concentrate. |
| CHEMICAL FAMILY | Pyrazole |
| USE | Herbicide |

2. HAZARDS IDENTIFICATION

Classified as Hazardous according to the NZ Environmental Protection Authority criteria.

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| GHS CLASSIFICATIONS | Eye irritation Category 2 Specific target organ toxicity repeated exposure Category 2 Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1 Hazardous to soil organisms |
| HSNO CLASSIFICATIONS | 6.3B, 6.4A, 6.9B, 9.1A, 9.2A |
| SIGNAL WORD | WARNING |
| PICTOGRAMS |  |
| HAZARD STATEMENTS | H317 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life (acute). H410 Very toxic to aquatic life with long lasting effects (chronic). H421 Very toxic to the soil environment |
| PREVENTION STATEMENTS | P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P260 Do not breathe mist/vapours/spray. P264 Wash face and hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment P280 Wear protective gloves / protective clothing / eye protection / face protection. |
| RESPONSE STATEMENTS | P101 If medical advice is needed, have product container or label on hand. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P314 Get medical advice/attention if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage. |
| STORAGE STATEMENTS | See Section 7. |

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2. HAZARDS IDENTIFICATION

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| DISPOSAL STATEMENTS | P501 | Dispose of contents/ containers in accordance with relevant regulations. See Section 13. |
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3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMMON NAME | CAS NUMBER | CONCENTRATION g/L |
|-------------------------------|-------------|-------------------|
| Mesotrione | 104206-82-8 | 480 g/L |
| Ethylene Glycol | 107-21-1 | <10% |
| Alcohols, C12-16, ethoxylated | 68551-12-2 | <10% |
| Non-hazardous ingredients | Proprietary | Balance to volume |

4. FIRST AID MEASURES

For advice call the National Poisons Centre 0800 POISON (0800 764 766) 24 hours or a doctor. If medical advice is needed have product container or label to hand.

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| EYE CONTACT | Rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, get medical attention/advice. |
| SKIN (or hair) CONTACT | Remove contaminated clothing and flush skin and hair with running water. If skin irritation occurs, get medical advice/ attention. |
| INHALATION | Remove to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration if not breathing. Call doctor if you feel unwell. |
| INGESTION | Do NOT induce vomiting. Rinse mouth. Call the POISON CENTRE or a doctor if you feel unwell. |
| NOTES TO DOCTOR | Treat symptomatically. |
| FIRST AID FACILITIES | Eye wash facilities and safety shower should be available. |

5. FIRE FIGHTING MEASURES

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| EXTINGUISHING MEDIA | Alcohol resistant foam is preferred firefighting medium but if it is not available, standard foam can be used. Prevent extinguishing media from entering drains |
| THERMAL DECOMPOSITION PRODUCTS | Non-flammable. Thermal decomposition may produce toxic fumes and compounds. |
| SPECIAL FIRE FIGHTING METHODS | Self-contained breathing apparatus with full face-piece and protective clothing. Cool fire exposed containers with water spray. |
| HAZCHEM CODE | 3Z |

6. ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS | Exclude non-essential people from the area. Wear Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS. |
| ENVIRONMENTAL PRECAUTIONS | Prevent product from entering waterways or drains. |
| SPILLS AND DISPOSAL | Spills may be slippery and should be cleaned up immediately. Contain spillage, then cover / absorb with inert, non-combustible absorbent material (attapulgite or similar). Collect and place in suitable sealed, labelled containers for disposal. Wash area with water and absorb with further inert material. See Section 13 for details on disposal. |

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7. HANDLING AND STORAGE

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| PRECAUTIONS FOR HANDLING | Carefully read the label before use. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands and face before eating. Prohibit eating, drinking and smoking in contaminated areas. This product must be under the control of a suitably qualified handler during mixing, loading and use. Wash contaminated clothing before reuse. |
| STORAGE | Store in original container, tightly closed, in a secure, dry, cool and well-ventilated area and avoid direct sunlight. Store away from foodstuffs, fertilisers or seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Stores containing 100 litres or more of AGPRO Mesotrione 480SC require secondary containment, signage and an emergency response plan. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| EXPOSURE LIMITS | Ethylene Glycol (vapour and mist) WES Ceiling 50ppm (127 mg/m ³) |
| EYE PROTECTION | Wear eye/face protection. |
| RESPIRATORY PROTECTION | Respiratory protection is not usually required if good ventilation is maintained. Where an inhalation risk exists, wear a Type A (Organic-Vapour) respirator. |
| PROTECTIVE CLOTHING | Wear chemically resistant gloves, coveralls, socks and chemical-resistant footwear. |
| VENTILATION | Avoid inhalation. Use in a well-ventilated area. |
| HYGIENE PRECAUTIONS | Do not eat, drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands and face before breaks and after work. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------------|-------------------|
| APPEARANCE / STATE/ COLOUR | Brown liquid |
| ODOUR | Not Available. |
| ODOUR THRESHOLD | Not Available. |
| pH (1% solution in water) | 4.0 – 8.0 |
| MELTING POINT / FREEZING POINT | Not Available |
| INITIAL BOILING POINT / BOILING RANGE | Not Available |
| FLASHPOINT | Not Applicable |
| FLAMMABILITY | Non-flammable |
| UPPER/LOWER FLAMMABILITY LIMITS | Not Available |
| VAPOUR PRESSURE | Not Available. |
| VAPOUR DENSITY | Not Available. |
| RELATIVE DENSITY | 1.1 g/ml @ 25°C |
| SOLUBILITY | Soluble in water. |
| OCTANOL / WATER PARTITION COEFFICIENT | Not Available. |

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9. PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------|-----------------|
| AUTOIGNITION TEMP | Not Applicable. |
| DECOMPOSITION TEMPERATURE | Not Available. |
| KINEMATIC VISCOSITY | Not Available. |
| PARTICLE CHARACTERISTICS | Not Applicable |

10. STABILITY AND REACTIVITY

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| CONDITIONS TO AVOID | None known. |
| MATERIALS TO AVOID | Strong acids/bases. Oxidising and reducing agents. |
| HAZARDOUS DECOMPOSITION PRODUCTS | Thermal decomposition may produce toxic fumes and compounds. |

11. TOXICOLOGICAL INFORMATION

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| ACUTE EFFECTS | No toxicological data is available for the finished product. |
| ORAL TOXICITY | Mesotrione LD50 (rat) >5000 mg/kg Ethylene Glycol LD50 (cat) 1670 mg/kg |
| DERMAL TOXICITY | Mesotrione LD50 (rat) 2000mg/kg |
| INHALATION TOXICITY | Mesotrione LC50 (rat) >4.75 mg/L |
| EYE CORROSION / IRRITANCY | Causes serious eye irritation. |
| SKIN CORROSION / IRRITANCY | No information. |
| CHRONIC EFFECTS | |
| CARCINOGENICITY | No information |
| REPRODUCTIVE TOXICITY | No information |
| GERM CELL MUTAGENICITY | No information |
| ASPIRATION | No information |
| STOT/SE | No information |
| STOT/RE | May cause damage to organs through prolonged or repeated exposure. |
| NARCOTIC EFFECTS | No information |

12. ECOLOGICAL INFORMATION

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| TOXICITY | Very toxic to aquatic life with long lasting effects. Very toxic to the soil environment. |
| PRECAUTIONS | This product must be under the control of a suitably qualified handler during mixing, loading and use. This product must not be applied directly into or onto water. Avoid contamination of any waterways with product or empty container. Very toxic to some plant species. Spray drift hazard – may cause serious damage to other desirable plants. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the area of application. |
| ECOTOXICITY INFORMATION | LC50 (96hr, Lepomis macrochirus) > 120 mg/L NOEC (21 day, Oncorhynchus mykiss) 12.5 mg/L EC50 (48hr, Daphnia magna) >622 mg/L NOEC (21 day, Daphnia magna) 180 mg/L Environmental Exposure Limits for mesotrione |

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12. ECOLOGICAL INFORMATION

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| | EEL (water) 0.0008mg/L |
| | EEL (soil) 0.0001 mg/kg |
| | EEL (surface) 0.0037 mg/m ² |
| BIOACCUMMULATIVE | No |
| READILY DEGRADABLE | Yes |

13. DISPOSAL CONSIDERATIONS

Do not contaminate streams, rivers or waterways with the chemical or the used container.

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| PRODUCT DISPOSAL | Dispose of by using product as intended, according to the label directions. If this is not possible, for small amounts, absorb with inert, non-combustible absorbent material (attapulgitite or similar). Collect and place in a sealable, labelled container and safely dispose of at an approved landfill. For large amounts contact your supplier or chemical recycling facility. |
| CONTAINER DISPOSAL | Triple rinse container and add residue to spray tank. Return empty container to an Agrecovery collection point for disposal, or puncture and dispose of at an approved facility. Do NOT burn. Do not use the container for any other purpose. |

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005, NZS 5433:2020, IMDG OR IATA.



| | Land Transport (NZS 5433) | Sea Transport (IMDG / IMO) | Air Transport (IATA / ICAO) |
|--------------------------------|---|---|---|
| UN Number | 3082 | 3082 | 3082 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains mesotrione 48%). | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains mesotrione 48%). | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains mesotrione 48%). |
| Transport Hazard Class | 9 | 9 | 9 |
| Subsidiary Class | - | - | - |
| Packing Group | III | III | III |
| Hazchem | 3Z | 3Z | |
| Marine Pollutant Status | | Not a marine pollutant | |

The Environmentally Hazardous Substance Mark is not required when transported in packages of less than 5kg/L (UN Model Regulations: Special Provision 375; IATA Special Provision A197; IMDG; Special Provision 969)

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15. REGULATORY INFORMATION

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| ACVM REGISTRATION | P008765 See MPI website for registration conditions www.foodsafety.govt.nz |
| HAZARDOUS SUBSTANCE APPROVAL CODE | HSR100665 See the EPA website for approval controls www.epa.govt.nz |
| RECORDS OF APPLICATION | If 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter the air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. |
| APPLICATION RATE RESTRICTIONS | Use of this substance is limited to ground based low-boom application. |
| MAXIMUM APPLICATION RATE | 0.45 L a.i./ ha with maximum of one application per year. |

16. OTHER INFORMATION

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| SDS ISSUE DATE | 4 August 2022 |
| SDS REVIEW DATE | August 2027 |
| REFERENCES | Supplier SDS NZ Workplace Exposure Standard and Biological Exposure Indices (Nov 2020) NZ Chemical Classification Information Database NZ EPA Hazardous Substance Approvals and Group Standards Databases Pesticide Properties Database: University of Hertfordshire |
| ABBREVIATIONS | |
| ACVM | Agricultural Compounds and Veterinary Medicines |
| CAS Number | Chemical Abstract Service Number - used to uniquely identify chemical compounds |
| EPA | Environmental Protection Agency (New Zealand) |
| g/L | Grams per litre |
| GHS | Globally Harmonised System |
| HSNO | Hazardous Substances and New Organisms |
| LC50 | Lethal Concentration, 50% / Median Lethal Concentration |
| LD50 | Lethal Dose, 50% / Median Lethal Dose |
| mg/m ³ | Milligrams per cubic metre |
| STEL | Short Term Exposure Limit |
| WES | Workplace Exposure Standard |
| IMDG/IMO | International Maritime Dangerous Goods / International Maritime Organisation |
| IATA / ICAO | International Air Transport Association / International Civil Aviation Organisation |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |
| OEL | Occupational Exposure Limit |

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products properties.

End of Safety Data Sheet