

SAFETY DATA SHEET

AGPRO LAWNCLEAN


AGPRO

1. SUBSTANCE IDENTIFICATION

SUPPLIER NAME	AGPRO NZ Limited
SUPPLIER ADDRESS	10 Polaris Place, East Tamaki, Auckland 2013 PO Box 58-963, Botany, Auckland 2163
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	200g/L 2,4-D plus 100g/L dicamba as amine salts in the form as a soluble concentrate
CHEMICAL FAMILY	Phenoxy-carboxylic acid / benzoate
USE	Herbicide

2. HAZARDS IDENTIFICATION

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

GHS CLASSIFICATIONS	Eye irritation Category 2. Specific target organ toxicity repeated exposure Category 1. Hazardous to the aquatic environment acute Category 1. Hazardous to the aquatic environment chronic Category 1. Hazardous to soil organisms. Hazardous to terrestrial vertebrates. Hazardous to terrestrial invertebrates.
HSNO CLASSIFICATIONS	6.4A, 6.9A, 9.1A, 9.2A, 9.3B, 9.4C
SIGNAL WORD	DANGER
PICTOGRAMS	
HAZARD STATEMENTS	H319 Causes serious eye irritation. H372 Causes damage to organs through prolonged or repeated exposure. H401 Toxic to aquatic life. H400 Very toxic to aquatic life (acute). H411 Toxic to aquatic life with long lasting effects. H421 Very toxic to the soil environment. H432 Toxic to terrestrial vertebrates. H443 Harmful to terrestrial invertebrates.
PREVENTION STATEMENTS	P260 Do not breathe mist/vapour/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	P305 + P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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2. HAZARDS IDENTIFICATION

	P314	Get medical advice/attention if you feel unwell.
	P337 + P313	If eye irritation persists: Get medical advice/attention
	P391	Collect spillage.
STORAGE STATEMENTS	See Section 7.	
DISPOSAL STATEMENTS	P501	Dispose of contents/ containers in accordance with relevant regulations. See Section 13.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CAS NUMBER	CONCENTRATION g/L
2,4-D dimethylamine salt	2008-39-1	200g/L
Dicamba dimethylamine salt	2300-66-5	100g/L
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.

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

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	The addition of water may cause excessive foaming. Self-contained breathing apparatus with full face-piece and protective clothing. Cool fire exposed containers with water spray.
HAZCHEM CODE	3Z

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6. ACCIDENTAL RELEASE MEASURES

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 (attapulgitite 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.

7. HANDLING AND STORAGE

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.
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 LAWNCLEAN require secondary containment, signage and an emergency response plan.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS	Not established.
EYE PROTECTION	Wear eye/face protection.
RESPIRATORY PROTECTION	Respiratory protection is not 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 well ventilated area.
HYGIENE PRECAUTION	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

APPEARANCE / STATE/ COLOUR	Brown liquid.
ODOUR	Amine odour.
ODOUR THRESHOLD	Not Available.
pH (1%) solution	6 – 8 (typical)
MELTING POINT / FREEZING POINT	Not Available
INITIAL BOILING POINT / BOILING RANGE	Not Available

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9. PHYSICAL AND CHEMICAL PROPERTIES

FLASHPOINT	Not Applicable.
FLAMMABILITY	Not Available
UPPER/LOWER FLAMMABILITY LIMITS	Not Available
VAPOUR PRESSURE	Not Available.
VAPOUR DENSITY	Not Available.
RELATIVE DENSITY	1.17 g/ml @ 25°C
SOLUBILITY	Miscible water
OCTANOL / WATER PARTITION COEFFICIENT	Not Available.
AUTOIGNITION TEMP	Not Applicable.
DECOMPOSITION TEMPERATURE	Not Available.
KINEMATIC VISCOSITY	Not Available
PARTICLE CHARACTERISTICS	Not Applicable

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal storage conditions in original container for two years.
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

ACUTE EFFECTS	No toxicological data is available for the finished product.
ORAL TOXICITY	2,4-D amine salt LD50 (rat) 625 mg/kg Dicamba DMA LD50 (rat) 1267 mg/kg
DERMAL TOXICITY	2,4-D amine salt LD50 (rabbit) 2115 mg/kg
INHALATION TOXICITY	Dicamba DMA LC50 (4hr, rat) >9.6 mg/kg 2,4-D amine salt LC50 1.8 – 10.7 mg/L
EYE CORROSION / IRRITANCY	Causes serious eye irritation.
SKIN CORROSION / IRRITANCY	Not expected to be irritating.
CHRONIC EFFECTS	
CARCINOGENICITY	No information
REPRODUCTIVE TOXICITY	No information
GERM CELL MUTAGENICITY	No information
ASPIRATION	No information
STOT/SE	No information
STOT/RE	Causes damage to liver and kidneys through prolonged or repeated exposure.
NARCOTIC EFFECTS	No information.

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12. ECOLOGICAL INFORMATION

TOXICITY	<p>Very toxic to aquatic life with long lasting effects.</p> <p>Very toxic to the soil environment.</p> <p>Toxic to terrestrial vertebrates.</p> <p>Harmful to terrestrial invertebrates.</p>												
PRECAUTIONS	<p>Qualified Handler: This product must be under the control of a suitably qualified handler during handling, mixing, loading or application.</p> <p>This product must not be applied directly into or onto water. Avoid contamination of any waterways with product or empty container.</p> <p>Selective Herbicide - very toxic to some plant species.</p> <p>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.</p> <p>Do not apply this product if bees are foraging.</p>												
ECOTOXICITY INFORMATION	<table border="0"> <tr> <td>Dicamba DMA</td> <td>LC50 (96hr, Rainbow trout) >977 mg ae/L</td> </tr> <tr> <td></td> <td>EC50 (5day, Skeletonema costatum) 0.493 mg ae/L</td> </tr> <tr> <td>2,4-D amine salt</td> <td>LC50 (96hr, Rainbow trout) 100 mg/L</td> </tr> <tr> <td></td> <td>EC50 (48hr, water flea) 4 mg/L</td> </tr> <tr> <td></td> <td>NOEL (28day, Fathead minnow) 17.1 mg/L</td> </tr> <tr> <td></td> <td>NOEL (21day, water flea) 27.5 mg/L</td> </tr> </table>	Dicamba DMA	LC50 (96hr, Rainbow trout) >977 mg ae/L		EC50 (5day, Skeletonema costatum) 0.493 mg ae/L	2,4-D amine salt	LC50 (96hr, Rainbow trout) 100 mg/L		EC50 (48hr, water flea) 4 mg/L		NOEL (28day, Fathead minnow) 17.1 mg/L		NOEL (21day, water flea) 27.5 mg/L
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BIOACCUMMULATIVE	No												
READILY DEGRADABLE	No												

13. DISPOSAL CONSIDERATIONS

Do not contaminate streams, rivers or waterways with the chemical or the used container.	
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 (attapulgate or similar). Collect and place in a suitable 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.

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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 2,4-D 20% and dicamba 10%)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains 2,4-D 20% and dicamba 10%)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains 2,4-D 20% and dicamba 10%)
Transport Hazard Class	9	9	9
Subsidiary Class	-	-	-
Packing Group	III	III	III
Hazchem	3Z	3Z	-
Marine Pollutant Status		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).

15. REGULATORY INFORMATION

ACVM REGISTRATION	Exempt from registration under the ACVM Act 1997.
HAZARDOUS SUBSTANCE APPROVAL CODE	HSR000368 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.

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16. OTHER INFORMATION

SDS issue date	20 December 2022
SDS review date:	December 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 University of Hertfordshire: Pesticide Properties Database

ABBREVIATIONS

ACVM	Agricultural Compounds and Veterinary Medicines
CAS Number	Chemical Abstract Service Number - used to uniquely identify chemical compounds
EPA	Environmental Protection Authority (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.