


AGPRO FORESTRY Brushkiller

1. SUBSTANCE IDENTIFICATION

SUPPLIER NAME	AGPRO NZ Limited
SUPPLIER ADDRESS	10 Polaris Place, East Tamaki, Auckland 2013
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	100 g/L picloram as the amine salt plus 300g/L triclopyr as the butoxyethyl ester in the form of an emulsifiable concentrate.
CHEMICAL FAMILY	Pyridine-carboxylic acid
USE	Herbicide

2. HAZARDS IDENTIFICATION

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

GHS CLASSIFICATIONS	<p>Flammable liquid Category 4 Acute oral toxicity Category 4 Acute inhalation toxicity Category 4 Eye irritation Category 2 Skin sensitisation Category 1 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 Hazardous to terrestrial vertebrates</p>
SIGNAL WORD	WARNING
PICTOGRAMS	
HAZARD STATEMENTS	<p>H227 Combustible liquid. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. 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.</p>

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2. HAZARDS IDENTIFICATION

PREVENTION STATEMENTS	H433	Harmful to terrestrial vertebrates.
	P102	Keep out of reach of children.
	P103	Read carefully and follow all instructions.
	P210	Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
	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.
	P271	Use only outdoors or in a well-ventilated area.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	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.
	P301 + P312	IF SWALLOWED: Call the POISON CENTRE or a doctor/physician if you feel unwell.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water
	P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
	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.
	P312	Call the POISON CENTRE or a doctor/physician if you feel unwell.
	P314	Get medical advice/attention if you feel unwell.
	P330	Rinse mouth.
	P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
	P337 + P313	If eye irritation persists: Get medical advice/attention.
	P362 + P364	Take off contaminated clothing and wash before re-use.
	P370 + P378	In case of fire: use foam or water fog for extinction.
	P391	Collect spillage.
STORAGE STATEMENTS	P235 + P403	Store in a well-ventilated place. Keep cool. 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 %w/v
Triclopyr butoxyethyl ester	64700-56-7	30% w/v (300 g/L)
Picloram amine salt	1454796-05-4	10% w/v (100 g/L)
Diethylene glycol ethyl ether	111-90-0	30-60% w/v
Non-hazardous ingredients	Proprietary	Balance to volume

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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 wash skin and hair with plenty of soap and water. If skin irritation or rash occurs, get medical advice/ attention. Wash contaminated clothing before re-use.
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	Hand and 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	Combustible liquid. 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

PERSONAL PRECAUTIONS	Exclude non-essential people from the area. Turn off sources of ignition. 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	Absorb liquid spills with inert material such as attapulgite, soil, etc., and place in a sealable and labelled waste container. Wash area with water and absorb with further inert material. 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

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. Persons mixing, loading, applying or otherwise handling this product must meet qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.
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. Do not store with class 1, 2, 3.2, 4 or 5 products. 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 FORESTRY Brushkiller require secondary containment, signage and an emergency response plan. Stores containing an aggregate quantity of more than 500L of 3.1D combustible products require 2 fire extinguishers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS	A NZ Workplace Exposure Standard (WES) TWA 10 mg/m ³ has been established for Picloram Acid [CAS: 1918-02-1]
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. Wash hands and face before breaks and after work. Remove clothing that becomes soaked or contaminated and wash before reuse. Contaminated clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/STATE/ COLOUR	Clear amber liquid
ODOUR	Not Available
ODOUR THRESHOLD	Not Available
pH (1% solution)	3.0 – 5.5
MELTING POINT/FREEZING POINT	Not Available
INITIAL BOILING POINT/BOILING RANGE	Not Available
FLASHPOINT	82°C (typical)
FLAMMABILITY	Flammable
UPPER/LOWER FLAMMABILITY LIMITS	Not Available
VAPOUR PRESSURE	Not Available
VAPOUR DENSITY	Not Available
RELATIVE DENSITY	1.14 g/ml @ 25°C (typical)

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9. PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY	Emulsifies in water
OCTANOL/WATER PARTITION COEFFICIENT	Not Available
AUTOIGNITION TEMP	Not Applicable
DECOMPOSITION TEMPERATURE	Not Available
KINEMATIC VISCOSITY	Not Available
PARTICLE CHARACTERISTICS	Not Available

10. STABILITY AND REACTIVITY

STABILITY	Stable under normal storage conditions in original container for 12 months.
CONDITIONS TO AVOID	Heat, sparks, sources of ignition.
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	Harmful if swallowed. LD50 (rat) 803 mg/kg for triclopyr 2-butoxyethyl ester LD50 (rat) 1061 mg/kg for picloram amine salt
DERMAL TOXICITY	No information.
INHALATION TOXICITY	Harmful if inhaled.
EYE CORROSION/IRRITANCY	Causes serious eye irritation.
SKIN CORROSION/IRRITANCY	May cause an allergic skin reaction.
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

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12. ECOLOGICAL INFORMATION

TOXICITY	Very toxic to aquatic life with long lasting effects. Very toxic to the soil environment. Harmful to terrestrial vertebrates.				
PRECAUTIONS	Persons mixing, loading, applying or otherwise handling this product must meet qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017. This product must not be applied directly into or onto water. Avoid contamination of any waterways with product or empty container. Do not use at the bottom of irrigation channels. Selective herbicide - 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	<table border="0"> <tr> <td>Triclopyr 2-butoxyethyl ester</td> <td>LC50 (96hr, Bluegill sunfish) 0.36 mg/L LOEC (65day, Rainbow trout) 0.048 mg/L EC50 (48hr, Daphnia magna) 1.7 mg/L EC50 (24hr, Navicula pelliculosa) 0.1 mg/L</td> </tr> <tr> <td>Picloram amine salt</td> <td>LC50 (96hr, Oncorhynchus mykiss) 8.8 mg/L EC50 (48hr, Daphnia magna) 44.2mg/L</td> </tr> </table>	Triclopyr 2-butoxyethyl ester	LC50 (96hr, Bluegill sunfish) 0.36 mg/L LOEC (65day, Rainbow trout) 0.048 mg/L EC50 (48hr, Daphnia magna) 1.7 mg/L EC50 (24hr, Navicula pelliculosa) 0.1 mg/L	Picloram amine salt	LC50 (96hr, Oncorhynchus mykiss) 8.8 mg/L EC50 (48hr, Daphnia magna) 44.2mg/L
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BIOACCUMMULATIVE	No				
READILY DEGRADABLE	Not biodegradable in water.				

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. 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.

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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., (triclopyr 30%, picloram 10%).	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (triclopyr 30%, picloram 10%).	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (triclopyr 30%, picloram 10%).
Transport Hazard Class	9	9	9
Subsidiary Class	-	-	-
Packing Group	III	III	III
Hazchem	3Z	3Z	-
Marine Pollutant Status		Marine Pollutant	

This product must not be transported on a passenger service vehicle.

15. REGULATORY INFORMATION

ACVM REGISTRATION	Exempt from registration under ACVM Act 1997.
HAZARDOUS SUBSTANCE APPROVAL CODE	Approved pursuant to the HSNO Act 1996, Approval Code HSR000553 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. Records of use must be retained for three years.
ADDITIONAL HSNO CONTROLS	None allocated.

AGPRO FORESTRY Brushkiller**16. OTHER INFORMATION**

SDS ISSUE DATE	19 March 2024
SDS REVIEW DATE	March 2029
REFERENCES	Supplier SDS NZ Workplace Exposure Standard and Biological Exposure Indices (November 2023) NZ Chemical Classification Information Database NZ EPA Hazardous Substance Approvals and Group Standards Databases 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 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 product's properties.

End of Safety Data Sheet