


## AGPRO 2,4-D Ester 680

## 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	680g/litre 2,4-D as the ethyl hexyl ester in the form of an emulsifiable concentrate.
CHEMICAL FAMILY	Phenoxy-carboxylic acid, ester
USE	Herbicide

## 2. HAZARDS IDENTIFICATION

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

GHS CLASSIFICATIONS	Acute oral toxicity Category 4 Skin sensitisation Category 1 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
HSNO CLASSIFICATIONS	6.1D, 6.5B, 6.9A, 9.1A, 9.2A, 9.3C
SIGNAL WORD	DANGER
PICTOGRAMS	
HAZARD STATEMENTS	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H372 Causes 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. H433 Harmful to terrestrial vertebrates.
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. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid unintended release to the environment. P280 Wear protective gloves / protective clothing / eye protection / face protection.

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## 2. HAZARDS IDENTIFICATION

RESPONSE STATEMENTS	P101	If medical advice is needed, have product container or label on hand.
	P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P314	Get medical advice/attention if you feel unwell.
	P330	Rinse mouth.
	P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
	P362 + P364	Take off contaminated clothing and wash before re-use.
	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 %w/v
2,4-D ethyl hexyl ester (expressed as 2,4,-D)	1928-43-4	68% (680g/L)
Linear dodecylbenzene sulfonate calcium salt in 2-ethyl hexanol	90194-26-6 / 104-76-7	4%
Solvent naptha	64742-94-5	<1%
Oxirane polymer with methyl oxirane, mono (nonylphenyl ether)	37251-69-7	4%
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 plenty of soap and water. If skin irritation or rash 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.

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## 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 compound.
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. 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 (attapulgate 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 2,4-D Ester 680 require secondary containment, signage and an emergency response plan.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS	An Occupational Exposure Limit has been set: TWA 2,4-D 10mg/m <sup>3</sup>
EYE PROTECTION	Wear eye/face protection.
RESPIRATORY PROTECTION	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

APPEARANCE / STATE/ COLOUR	Clear brown liquid
ODOUR	Not Available.
ODOUR THRESHOLD	Not Available.
pH (5% solution)	3.0 – 4.0 (typical)
MELTING POINT / FREEZING POINT	Not Available
INITIAL BOILING POINT / BOILING RANGE	Not Available
FLASHPOINT	Not Available
FLAMMABILITY	Non-flammable
UPPER/LOWER FLAMMABILITY LIMITS	Not Available
VAPOUR PRESSURE	Not Available
VAPOUR DENSITY	Not Available
RELATIVE DENSITY	1.15 g/ml @ 25°C (typical)
SOLUBILITY	Fully dispersible in water with no separation
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	Hazardous polymerisation will not occur. Thermal decomposition may produce toxic fumes and compounds.

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## 11. TOXICOLOGICAL INFORMATION

<b>ACUTE EFFECTS</b>	No toxicological data is available for the finished product.	
ORAL TOXICITY	Harmful if swallowed	
	2,4-D ethyl hexyl ester	LD50 (mouse) 673 mg/kg
DERMAL TOXICITY	2,4-D ethyl hexyl ester	LD50 (rat) >2000mg/kg
INHALATION TOXICITY	2,4-D ethyl hexyl ester	LD50 (4hr, rat) >5.39 mg/kg
EYE CORROSION / IRRITANCY	No information	
SKIN CORROSION / IRRITANCY	No information	
<b>CHRONIC EFFECTS</b>		
CARCINOGENICITY	No information	
REPRODUCTIVE TOXICITY	No information	
GERM CELL MUTAGENICITY	No information	
ASPIRATION	No information	
STOT/SE	No information	
STOT/RE	Causes damage to organs through prolonged or repeated exposure.	
NARCOTIC EFFECTS	No information	

## 12. ECOLOGICAL INFORMATION

TOXICITY	Very toxic to aquatic life with long lasting effects. Very toxic to the soil environment. Harmful to terrestrial vertebrates.	
PRECAUTIONS	Qualified Handler: This product must be under the control of a suitably qualified handler during handling, mixing, loading or application.  This product must not be applied directly into or onto water. Avoid contamination of any waterways with product or empty container. 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	2,4-D Ethyl hexyl ester	EC50 (48hr, Daphnia) 5.2 mg/L EC50 (Skeletonema costatum) 0.23 mg/L NOEC (14day, aquatic plant) 0.1875 mg/L
BIOACCUMMULATIVE	Yes	
READILY DEGRADABLE	No	

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## 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 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)
<b>UN Number</b>	3082	3082	3082
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains 2,4-D 68%).	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains 2,4-D 68%).	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains 2,4-D 68%).
<b>Transport Hazard Class</b>	9	9	9
<b>Subsidiary Class</b>	-	-	-
<b>Packing Group</b>	III	III	III
<b>Hazchem</b>	3Z	3Z	-
<b>Marine Pollutant Status</b>		Marine Pollutant	

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

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## 15. REGULATORY INFORMATION

ACVM REGISTRATION	P007861 See MPI website for registration conditions <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a>
HAZARDOUS SUBSTANCE APPROVAL CODE	HSR000962 See the EPA website for approval controls <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
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.

## 16. OTHER INFORMATION

SDS ISSUE DATE	29 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
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 <sup>3</sup>	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