

MATERIAL SAFETY DATA SHEET**Agricrop Affray 300 Herbicide****1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY**

Product Name:	Agricrop Affray 300 Herbicide
Distributor:	Agricrop Pty Ltd
ABN:	84 100 473 309
Street Address:	255 Port Road Hindmarsh, SA 5007
Telephone:	07 3348 4113
Facsimile:	07 3348 2702
Emergency Telephone Number:	1800 033 111 (all Hours)
Product Use:	For the integrated control of Groundsel Bush, Mother-of-Millions, Noogoora Burr, Bathurst Burr, Water Hyacinth and other weeds.
Product Type:	Selective herbicide. Emulsifiable Concentrate

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical entity	CAS No	Content
2,4-D Isopropylamine salt	94-75-7	30%
solvent naphtha (petroleum), heavy aromatic	64742-94-5	25.9%
ethoxylated alcohol c9-c11	68439-46-3	50%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

3. HAZARDS IDENTIFICATION**CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA****RISK PHRASES**

- R22 Harmful if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R65 Harmful: May cause lung damage if swallowed.

SAFETY PHRASES

- S2 Keep out of reach of children.
- S23 Do not breathe gas/fumes/vapour/spray (where applicable).
- S24/25 Avoid contact with skin and eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.
- S61 Avoid release to the environment. Refer to special instructions / safety data sheets.
- S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

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4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the PIC or a doctor, or for at least 15 minutes.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhalation	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or Airline respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
Advice to Doctor	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Fire & Explosion	Combustible. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon oxides, chlorides, phosgene, hydrogen chloride) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Flammability	Combustible. May evolve toxic gases (chlorides, hydrogen chloride, phosgene, carbon oxides, hydrocarbons) when heated to decomposition.
Hazchem Code	None Allocated.

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, neoprene/nitrile gloves, a Type A (Organic vapour) respirator (or Full-face Air-line respirator in confined areas), coveralls and boots. Ventilate and clear area of all unprotected personnel. Absorb with sand or similar and place in clean containers for disposal. CAUTION: DO NOT DILUTE THE SPILLED PRODUCT WITH WATER
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7. HANDLING AND STORAGE

Storage	Store in cool, dry, well ventilated area, removed from fertilizers, moisture, seeds, acids, oxidising agents, alkalis, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Store as a Class C1 Combustible Liquid (AS1940).
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Stds	Ingredient	Reference	TWA ppm mg/m3	STEL ppm mg/m3
	2,4-D	NOHSC (AUS)	-- 10.0	-- --
Biological Limits	No biological limit allocated.			
Engineering Controls	Use in well ventilated or mechanically exhausted area. Maintain vapour levels below the recommended exposure standard.			
PPE	Wear splash-proof goggles, a washable hat, rubber boots, neoprene or nitrile gloves and coveralls. A Powered Air Purifying Respirator (PAPR) fitted with Type A-Class P1 filters will provide a higher degree of protection and comfort where prolonged or repeated use is required (not suitable in oxygen deficient atmospheres). Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. If spraying, wear an Air-line or a Full-face Type A-Class P1 (Organic gases/vapours and Particulate) respirator			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light Straw Coloured Liquid	Solubility (Water)	Emulsifiable
Odour	Hydrocarbon Odour	Specific Gravity	1.068
pH	Not Available	% Volatiles	30% (Approximately)
Vapour Pressure	Not Available	Flammability	Class C1 Combustible
Vapour Density	Not Available	Flash Point	70°C
Boiling Point	> 170°C (Solvent)	Upper Explosion Limit	Not Available
Melting Point	-20°C (Solvent)	Lower Explosion Limit	Not Available
Evaporation Rate	Not Available	Autoignition Temp.	< 450°C

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended conditions of storage.

Conditions to Avoid Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. nitric acid), alkalis (eg. Sodium hydroxide) and heat sources.

Decomposition May evolve toxic gases (chlorides, hydrogen chloride, phosgene, carbon oxides, hydrocarbons) when heated to decomposition.

Hazardous Reactions Polymerization is not expected to occur..

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary

Toxic - irritant. Use safe work practices to avoid eye or skin contact and vapour generation - inhalation. Chronic exposure to organic solvents may cause liver and kidney damage. Chlorophenoxy herbicides are classified as possibly carcinogenic to humans (IARC Group 2B). This product may be diluted with water before application, which will reduce toxicity. Do not spray near non target trees/shrubs. Do not allow contamination into drains and waterways.

Eye Irritant. Contact may result in irritation, lacrimation, pain and redness.

Inhalation Toxic. Over exposure may result in mucous membrane irritation of the nose and throat, coughing, weakness, nausea, vomiting and diarrhoea. At high levels; dizziness, muscle twitching, incoordination, excessive perspiration with rapid pulse and breathing difficulties. The manufacturer reports that the inhalation LD50 (rat) is > 1.79 mg/L.

Skin Irritant. Contact may result in irritation, redness, itching, pain and rash. May be absorbed through skin with toxic effects.

Ingestion Toxic. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, and sweating and/or salivation. Ingestion of large quantities may result in breathing difficulties, muscle spasms and convulsions.

Aspiration may result in chemical pneumonitis and pulmonary oedema. The manufacturer reports that the oral LD50 (rat) is 699 mg/kg.

Toxicity Data 2,4-D ISOPROPYLAMINE SALT (94-75-7)

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Carcinogenicity: Possibly carcinogenic to humans (IARC Group 2B)
LD50 (Ingestion): 100 mg/kg (dog)
LD50 (Skin): 1400 mg/kg (rabbit)
ETHOXYLATED ALCOHOL C9-C11 (68439-46-3)
LD50 (Ingestion): 1378 mg/kg (rat)
LD50 (Skin): > 2000 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

Environment Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site only. Contact the manufacturer for additional information if larger amounts are involved. Triple (or preferably pressure) rinse containers before disposal. Add risings to spray tank.
Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No:	None Allocated	Hazchem Code:	None Allocated
Dangerous Goods Class:	None Allocated	Sub Risk Class:	No Subsidiary Risk.
SUSDP:	S5	Packaging Group:	None Allocated
EPG:	None allocated		

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

All due care and skill, so far as practicable, has been applied in the preparation and collation of the information in this MSDS. Each user of the Product named in this MSDS should read and consider the information contained in this MSDS in the context of how the Product will be stored, handled, used or applied in the workplace. In all circumstances, it is the responsibility of the user of the Product to ensure that they have sought out the relevant safety data appropriate to their particular situation. Nothing contained in this MSDS shall be construed as a representation or recommendation to the user about the suitability or otherwise of the Product named in this MSDS for the user's particular situation. If the user requires any clarification or further information, the user should contact Agricrop.

**CONTACT POINT: Agricrop Pty Ltd
255 Port Road, Hindmarsh, SA 5007**

Telephone: 07 3348 4113 - Facsimile: 07 3348 2702

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Please read all labels carefully before using product.