

Infosafe No™ 3NU9B	Issue Date : June 2021	ISSUED by NUFARM
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 Product Name **ESTERCIDE 800 Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	ESTERCIDE 800 Herbicide
Product Code	0400 NUL 2515
Product Type	Group I Herbicide
Company Name	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address	103-105 Pipe Road Laverton North Victoria 3026 Australia
Telephone/Fax Number	Tel: +61 3 9282-1000
Emergency phone number	1800 033 498 (24hr Australia)
E-mail Address	SDSANZ@nufarm.com
Recommended use of the chemical and restrictions on use	This is a PHENOXY HERBICIDE that can cause severe damage to native vegetation and susceptible crops such as cotton, grapes, tomatoes, oilseed crops and ornamentals.
Other Information	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

2. Hazard Identification

GHS classification of the substance/mixture	CA2 Carcinogenicity: Category 2 AH1 Aspiration Hazard: Category 1 OT4 Acute Toxicity - Oral: Category 4 SS-1 Sensitization - Skin: Category 1 SC-3 Skin corrosion/irritation: Category 3 ED1 Eye Damage/Irritation: Category 1 FL4 Combustible Liquids: Category 4 AC1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H351 Suspected of causing cancer. H304 May be fatal if swallowed and enters airways. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H316 Causes mild skin irritation. H227 Combustible liquid. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
Pictogram (s)	Corrosion, Exclamation mark, Health hazard, Environment



Precautionary statement – Prevention	P203 Obtain, read and follow all safety instructions before use. P261 Avoid breathing vapours or spray. P264 Wash hands and exposed skin 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. P280 Wear protective gloves, clothing, eye and face protection. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment.
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Precautionary statement – Response P308+P313 IF exposed or concerned: Get medical advice/attention.
 P301+P316 IF SWALLOWED: Get emergency medical help immediately.
 P331 Do NOT induce vomiting.
 P330 Rinse mouth.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P333+P317 If skin irritation or rash occurs: Get medical help.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P391 Collect spillage.

Other Information Poisons Schedule S6

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	2,4-D (present as the ethyl ester)	94-75-7	800 g/L
	Other ingredients (non-hazardous)		10-30 %
	Liquid Hydrocarbons	64742-94-5	10-30 %
	Tetrapropylene benzene sulphonate-Ca salt	11117-11-6	<5%

4. First-aid measures

Inhalation Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

Ingestion If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Skin Remove contaminated clothing and launder before re-use.
Wash affected areas thoroughly with soap and water.

Eye contact If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice.

First Aid Facilities If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

Advice to Doctor Treat symptomatically.
If vomiting occurs, solvent present may cause pulmonary pneumonitis.

5. Fire-fighting measures

Suitable extinguishing media Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products Although material is not flammable, the concentrate is combustible. May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.

Special Protective Equipment for fire fighters Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Hazchem Code 3Z

Other Information STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).
Collect spilled material and waste in sealable open-top type containers for disposal.
On-site disposal of concentrate is not acceptable.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

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Clean-up Methods - Large Spillages	Place damaged containers in recovery bins (if available) and return to manufacturer. If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas, as possible, before absorbing remaining material into vermiculite or other absorbent.
Environmental Precautions	This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.
Other Information	Do not use on or in situations where damage to susceptible crops or plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or drift. Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standard for this product has been set, however, an exposure standard has been set for 2,4-D at 10 mg/m ³ . The manufacturer of the solvent has recommended an occupational exposure limit of 100 mg/m ³ ; 17ppm TWA, as total hydrocarbon.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate. Local exhaust ventilation may be required in confined spaces.
Personal Protective Equipment	When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray, wear face shield.
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form	Liquid
Appearance	Clear brown liquid
Odour	Typical solvent odour
Boiling Point	296°C (2,4-D ethyl ester); 179 - 219°C (solvent)
Solubility in Water	Disperses in water.
Specific Gravity	1.219
Vapour Pressure	145 mPa @ 20°C for 2,4-D ethyl ester; 83 mPa @ 20°C for solvent.
Vapour Density (Air=1)	>1
Partition Coefficient: n-octanol/water	Kow Log P is 3.2 (pH 1-10)
Flash Point	93°C
Flammability	GHS: Combustible liquid. GHS Category 4. Combustible liquid C1 (AS1940 - 2017).
Auto-Ignition Temperature	>400°C for solvent

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
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Possibility of hazardous reactions Keep away from strong oxidising agents, may react violently.

Hazardous Polymerization Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat) 720 - 982 mg/kg for a similar 2,4-D formulation

Acute Toxicity - Dermal LD50 (rat) >2000 mg/kg for a similar 2,4-D formulation

Acute Toxicity - Inhalation LC50 (rat) (4hr) >5.4 mg/l for a similar 2,4-D formulation

Ingestion Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.

Inhalation When applying the product as a spray avoid breathing in spray mist.

High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.

Skin Prolonged contact with the concentrate may result in absorption of 2,4-D in harmful amounts.

Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.

Prolonged or repeated exposure may cause skin sensitisation.

Eye The concentrate will cause serious irritation and possible damage unless washed off immediately.

Skin Sensitisation Prolonged and repeated skin contact may result in skin sensitisation.

Carcinogenicity An impurity present in the solvent has been found to cause tumors in laboratory studies. The active ingredient(s), 2,4-D is not considered carcinogenic.

Reproductive Toxicity Data indicates no reproductive effects.

Data indicates no teratogenic effects.

Chronic Effects Chronic Overexposure: Repeated absorption of relatively large amounts of 2,4-D presents a risk to the liver and kidneys.

Mutagenicity The weight of evidence indicates that 2,4-D does not present a mutagenic risk.

Skin corrosion/irritation Mild skin irritant.

Other Information The Australian Acceptable Daily Intake (ADI) for 2,4-D for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', April 2020).

12. Ecological information

Known Harmful Effects on the Environment 2,4-D ethyl ester hydrolyses rapidly in natural waters. 2,4-D acid is readily biodegradable.

Environmental Protection Spray drift can cause damage, read the label for more information.

Acute Toxicity - Fish LC50 (96hr) for zebra fish is 2.7 mg/l for the formulated product

Acute Toxicity - Daphnia EC50 (48hr) for daphnia magna is 5.1 mg/l for the formulated product.

Acute Toxicity - Algae EC50 (48hr) for algae 7.3 mg/l for the formulated product.

Acute Toxicity - Other Organisms Moderately toxic to birds.
Not toxic to bees.

13. Disposal considerations

Product Disposal On site disposal of the concentrated product is not acceptable.

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Container Disposal

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

Do not use this container for any other purpose.

If not recycling, puncture or shred and bury containers in local authority landfill.

If recycling, replace cap and return clean containers to recycler or designated collection point.

Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Empty containers and product should not be burnt.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Hazchem Code	3Z
Storage and Transport	Considered non dangerous in packs not exceeding 500 kg (L) or IBCs not exceeding 3000 kg (L) (Special Provision AU01) for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Number (Sea Transport)	3082
IMO Class/Packing Group	Class 9/PG III
IMO Proper Shipping Name	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2,4-D ETHYL ESTER)
Marine Pollutant	Marine Pollutant

15. Regulatory information

Regulatory Information	WHS Schedule 11: item 10 - Flammable Liquid category 4 .
Poisons Schedule	S6
Packaging & Labelling	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 31209.

16. Other Information

Date of preparation or last revision of SDS	Revised 24/06/2021
Contact Person/Point	Normal Hours: SDS Coordinator Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	See section 9 for flammability information updated. ...End Of MSDS...



Safety Data Sheet

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