

Infosafe No™ 3NUQA	Issue Date : March 2019	ISSUED by NUFARM
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 Product Name **WARRANT 250 Herbicide**

Classified as hazardous

1. Identification

GHS Product Identifier	WARRANT 250 Herbicide
Product Code	0709 NUL2624
Product Type	Group B 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 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on use	For the control of various annual and perennial weeds in non-crop situations as indicated in the Directions for Use table on the label.
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	ED1 Eye Damage/Irritation: Category 1 AA1 Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H318 Causes serious eye damage. H400 Very toxic to aquatic life.
General Precautionary Statement (s)	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, Environment, The below pictogram is a GHS Hazard symbol for workplace use only. See SECTION 14 for Dangerous Goods information.



Precautionary statement – Prevention	P280 Wear protective gloves, clothing, eye and face protection.
Precautionary statement – Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.
Other Information	Poisons Schedule : Not Scheduled

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Imazapyr present as the isopropylamine salt	81334-34-1	250 g/L
	Other ingredients (considered non-hazardous)		Balance

4. First-aid measures

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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. Give a glass of water. If vomiting occurs, give more water to drink to assist dilution.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Eye contact	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. If irritation persists consult a doctor.
Advice to Doctor	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	None required but use water spray to cool containers or personnel threatened by fire.
Hazards from Combustion	If involved in a fire, the dehydrated components may emit oxides of carbon and oxides of nitrogen.
Products	
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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Do not mix, store or apply the product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks.
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	Always read the label and any attached leaflet before use. 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.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been set for this product or the active ingredients.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
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.

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9. Physical and chemical properties

Form	Liquid
Appearance	Clear amber liquid
Odour	Faint amine
Solubility in Water	Soluble in water.
Specific Gravity	1.077
pH	5.5-6.0
Vapour Pressure	<0.013 mPa @ 60°C for imazapyr;
Volatile Component	54% (for water)
Partition Coefficient: n-octanol/water	0.11 for imazapyr;
Flammability	Non combustible material.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Incompatible Materials	The addition of a strong alkali such as caustic soda will cause release of isopropylamine vapour. Isopropylamine is moderately toxic, LD50 (oral, rat) is 820 mg/kg and a TLV of 5 ppm (TWA) has been set.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for imazapyr
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >5.1 mg/l for imazapyr
Ingestion	The concentrate is of low toxicity if swallowed.
Inhalation	The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. However, care should be taken to avoid the inhalation of excessive amounts of spray mist during field spraying, respiratory irritation may occur.
Skin	May irritate the skin.
Eye	A severe eye irritant.
Carcinogenicity	Data indicates no carcinogenic effects.
Reproductive Toxicity	Data indicates no reproductive effects.
Chronic Effects	Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
Serious eye damage/irritation	This product is a severe eye irritant.
Mutagenicity	Data indicates no mutagenic effects.
Skin corrosion/irritation	Mild skin irritant.
Other Information	The Australian Acceptable Daily Intake (ADI) for imazapyr for a human is 2.5 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 250 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', June 2018).

12. Ecological information

Persistence and degradability	Soil residual activity for imazapyr is 6 months to 2 years in temperate climates; 6 months in tropical climates.
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Environmental Protection	Spray drift should be avoided, read the label for more information.
Acute Toxicity - Fish	The following is data for the active ingredient, imazapyr. Not toxic to fish. LC50 (96hr) for rainbow trout, bluegill sunfish and channel catfish is >100 mg/l.
Acute Toxicity - Algae	EC50 for lemna gibba is 0.024 mg/l for imazapyr
Acute Toxicity - Other Organisms	Not toxic to birds. Not toxic to bees.

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable. 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®).
Container Disposal	Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Empty containers and product should not be burnt.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01. For bulk shipments as Class 9, use UN 3082, HazChem code 2Z.
UN Number (Sea Transport)	3082
IMO Class/Packing Group	Class 9, Packing Group III
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains imazapyr)

15. Regulatory information

Regulatory Information	Australia: WHS regulations (2011) - Schedule 11: classification not listed.
Packaging & Labelling	CAUTION 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: 68174.

16. Other Information

Date of preparation or last revision of SDS	Reviewed 20/03/2019. This SDS replaces document dated March 2014.
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498
Revisions Highlighted	The SDS was reviewed. Minor changes were made to the information.



Safety Data Sheet

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