

## NUFARM GLYPHOSATE 450 SL

Infosafe No.: 3NV4E  
ISSUED Date : 09/01/2024  
ISSUED by: NUFARM AUSTRALIA LIMITED.

### Section 1 - Identification

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**Product Identifier**

NUFARM GLYPHOSATE 450 SL

**Product Code**

0474,0508,0508SL

**Company Name**

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

**Address**

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Victoria 3026 AUSTRALIA

**Telephone/Fax Number**

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Fax: +61 3 9282-1001

**Emergency Phone Number**

1800 033 498 (24hr Australia)

**Emergency Contact Name**

www.nufarm.com.au

**E-mail Address**

SDSANZ@nufarm.com

**Recommended use of the chemical and restrictions on use**

A non-selective herbicide that will kill most emerged weeds and plants in situations as indicated in the directions for use.

**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.

### Section 2 - Hazard(s) Identification

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**GHS classification of the substance/mixture**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

**Hazard Statement (s)**

H411 Toxic to aquatic life with long lasting effects.

**Pictogram (s)**

Environment



**Precautionary Statement–Prevention**

P273 Avoid release to the environment.

**Precautionary Statement–Response**

P391 Collect spillage.

**Precautionary Statement–Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

## Section 3 - Composition and Information on Ingredients

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**Ingredients**

Name	CAS	Proportion
Glyphosate (as monomethylamine, ammonium and potassium salts)	1071-83-6	450 g/L
Surfactant		3-5 %
Ingredients determined not to be hazardous		Balance

## Section 4 - First Aid Measures

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**Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

**Skin**

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

**First Aid Facilities**

Eyewash and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## Section 5 - Firefighting Measures

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**Suitable Extinguishing Media**

Use appropriate fire extinguisher for surrounding environment.

**Unsuitable Extinguishing Media**

Do not use water jet.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen or phosphorus.

**Specific hazards arising from the chemical**

This product is non combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn.

**Special Protective Equipment and Precautions for Firefighters**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

**Hazchem Code**

•3Z

**Decomposition Temperature**

Not available

## Section 6 - Accidental Release Measures

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**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Final clean-up with degreasing agent or detergent is advised.

## Section 7 - Handling and Storage

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**Precautions for Safe Handling**

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

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.

**Other Information**

Always read the label and any attached leaflet before use.

## Section 8 - Exposure Controls and Personal Protection

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**Occupational exposure limit values**

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

**Biological Monitoring**

No biological limits allocated.

**Control Banding**

Not available

**Engineering Controls**

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye and Face Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

**Hand Protection**

Wear gloves of impervious material such as nitrile or PVC. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Thermal Hazards

No further relevant information available.

### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

### 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.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Dark blue liquid
Colour	Dark blue	Odour	No odour
Melting Point	Not available	Boiling Point	>105°C
Decomposition Temperature	Not available	Solubility in Water	Soluble
Specific Gravity	1.120-1.230	pH	4.4-4.75
Vapour Pressure	Not available	Relative Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Volatile Component	Not available
Partition Coefficient: n-octanol/water (log value)	Not available	Flash Point	None
Flammability	Non combustible material	Auto-Ignition Temperature	Not available
Explosion Limit - Upper	Not available	Explosion Limit - Lower	Not available
Explosion Properties	Not available	Oxidising Properties	Not available
Particle Characteristics	Not available		

## Section 10 - Stability and Reactivity

### Reactivity

Reacts with incompatible materials.

### Chemical Stability

Stable under normal conditions of storage and handling.

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible Materials

Corrosive to mild steel, galvanised steel and zinc.

Non corrosive to stainless steel, polyethylene and plastics.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

## Section 11 - Toxicological Information

### Toxicology Information

Toxicity data for material given below.

### Acute Toxicity - Oral

LD50 (rat): >5000 mg/kg for a similar formulation.

**Acute Toxicity - Dermal**

LD50 (rabbits): >2000 mg/kg for a similar formulation

**Acute Toxicity - Inhalation**

LC50 (rat): >5 mg/l/4h for a similar formulation.

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

The concentrate is of low toxicity if swallowed.

Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.

Ingestion of a large quantity of the undiluted product may result in hypotension and pulmonary oedema.

**Inhalation**

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

**Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling.

Prolonged contact is likely to result in irritation.

**Eye**

May be irritating to eyes. The symptoms may include redness, itching and tearing.

**Respiratory Sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ Cell Mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

Glyphosate is listed as a Group 2A: Probably carcinogenic to humans according to International Agency for Research on Cancer (IARC).

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT - Single Exposure**

Not expected to cause toxicity to a specific target organ.

**STOT - Repeated Exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Other Information**

The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 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: Australian Pesticides and Veterinary Medicines Authority (APVMA) December 2023.

## Section 12 - Ecological Information

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**Ecotoxicity**

The available ecological data is given below.

**Persistence and degradability**

Average field half life of glyphosate is 47 days.

Adsorption studies indicate that glyphosate has very low mobility.

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

### Other Adverse Effects

Not available

### Environmental Protection

Do not spray in high winds. Glyphosate is a non-selective contact herbicide.

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

Do not discharge this material into waterways, drains and sewers.

### Acute Toxicity - Fish

The following is data for a similar product.

LC50 (96hr) for bluegill sunfish is 5.8 - 14 mg/l.

LC50 (96hr) for rainbow trout is 8.2 - 26 mg/l.

LC50 (96hr) for fathead minnow is 9.4 mg/l.

TL50 (96hr) carp is 19.7 ppm

### Acute Toxicity - Other Organisms

The following data is for the active ingredient, glyphosate.

Birds: Not toxic to birds.

LD50 for bobwhite quail is >3850 mg/kg

Bees: Not toxic to bees.

LD50 >100 µg/bee.

### Hazardous to the Ozone Layer

This product is not expected to deplete the ozone layer.

## Section 13 - Disposal Considerations

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### Disposal Considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

To minimise personal exposure, refer to Section 8 - Exposure Controls and Personal Protection.

### 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 and Methods

Do not use this container for any other purpose.

Empty containers and product should not be burnt.

## Section 14 - Transport Information

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### Transport Information

Road and Rail Transport (ADG Code):

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods

Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives (when the class 9 substance is a fire risk substance) Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and

Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in: packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 9

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Glyphosate (as monomethylamine, ammonium and potassium salts)) (MARINE POLLUTANT)

Packing Group: III  
EMS: F-A, S-F  
Special Provisions: 274, 335, 969

**Air Transport (ICAO/IATA):**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Class/Division: 9

UN No: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Contains Glyphosate (as monomethylamine, ammonium and potassium salts))

Packing Group: III

Label: Miscellaneous

Packaging Instructions (passenger & cargo): 964

Packaging Instructions (cargo only): 964

Special provisions: A97, A158, A197, A215

**UN Number**

3082

**Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.Contains Glyphosate (as monomethylamine, ammonium and potassium salts)

**Transport Hazard Class**

9

**Packing Group**

III

**Hazchem Code**

•3Z

**IERG Number**

47

**Special Precautions for User**

Not available

**IMDG Marine pollutant**

Yes

**Transport in Bulk**

Not available

## Section 15 - Regulatory Information

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**Regulatory Information**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

WHS regulations (2011) - Schedule 11: classification not listed.

**Poisons Schedule**

S5

**Montreal Protocol**

Not listed

**Stockholm Convention**

Not listed

**Rotterdam Convention**

Not listed

**International Convention for the Prevention of Pollution from Ships (MARPOL)**

Not available

**Agricultural and Veterinary Chemicals Act 1994**

APVMA product number: 93156.

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

**Basel Convention**

Not listed

**Section 16 - Any Other Relevant Information**

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**Date of Preparation**

SDS Created: January 2024.

**Version Number**

1.0

**Literature References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

**Contact Person/Point**

Normal hours: SDS coordinator : Phone +61 3 9282 1000

After hours: Shift supervisor : Phone 1800 033 498

**User Codes**

User Title Label	User Codes
Field 4	Y

**END OF SDS**

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