



# SAFETY DATA SHEET

## NUFARM 2,4-D AMINE 625 HERBICIDE

Infosafe No.: LQAZU  
ISSUED Date : 14/11/2024  
ISSUED by: NUFARM AUSTRALIA LIMITED.

### Section 1 - Identification

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**Product Identifier**

NUFARM 2,4-D AMINE 625 HERBICIDE

**Product Code**

0478, NUL0384

**Product Type**

Group 1 Herbicide

**Company Name**

NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)

**Address**

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**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**

For the control of broadleaf weeds in fallow before direct drilling or sowing of cereals and pastures; and in cereal crops, pastures, sugar cane, peanuts and non-agricultural areas as per the Directions of Use: table on the label.

This is a PHENOXY HERBICIDE that can cause severe damage to susceptible crops such as cotton, grapes, tomatoes, oilseed crops and ornamentals.

**Additional 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**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Complies with the requirements of Special Provision AU01 and therefore exempted from being classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classified as Dangerous Goods according to International Maritime Dangerous Goods Code (IMDG) and International Air Transport Association (IATA).

Acute toxicity: Category 4 - Oral

Sensitisation - skin: Category 1

Eye damage/irritation: Category 1

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

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

**Pictogram (s)**

Environment, Exclamation mark, Corrosion



**Precautionary Statement—Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statement—Response**

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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/doctor.

P391 Collect spillage.

**Precautionary Statement—Disposal**

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

**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 carefully and follow all instructions.

### Section 3 - Composition and Information on Ingredients

**Ingredients**

Name	CAS	Proportion
2,4-D present as dimethylamine and diethanolamine salts		40-50 %
Ingredients determined not to be hazardous, including water		Balance

### Section 4 - First Aid Measures

**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 immediate medical attention.

**Skin**

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

**Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

**First Aid Facilities**

Eye wash, safety shower 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.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including hydrogen chloride, phosgene, carbon monoxide and carbon dioxide.

**Specific hazards arising from the chemical**

This product is non combustible.

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## 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.

**Environmental Precautions**

This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

## 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 containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations. Protect from freezing.

**Other Information**

Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot soapy water or 1% solution of ammonia, followed by several clear water rinse.

## Section 8 - Exposure Controls and Personal Protection

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### Occupational exposure limit values

No exposure standards have been established for the mixture. Exposure limits for ingredients and dimethylamine which could be formed on reaction is given below:

2,4-Dichlorophenoxyacetic acid

TWA: 10 mg/m<sup>3</sup>

Note: Sen

Dimethylamine

TWA: 2 ppm, 3.8 mg/m<sup>3</sup>

STEL: 6 ppm, 11 mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sen'Notice: The substance may cause sensitisation by skin contact or by inhalation.

Source: Safe Work Australia.

### Biological Monitoring

No biological limits allocated.

### Control Banding

Not available

### Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

### 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 full face shield should be used. 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 elbow length PVC gloves. 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 work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. When preparing spray, wear PVC or rubber apron.

### Hygiene Measures

Do not eat, drink or smoke when using this product.

### Requirements Concerning Special Training

People who use pesticides in their job or business should have training in the application of the materials.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear liquid
Colour	Red-brown liquid	Odour	Ammoniacal odour.
Melting Point	<0°C	Boiling Point	>100°C (for water)
Decomposition Temperature	Not available	Solubility in Water	Soluble in water.
Specific Gravity	1.254	pH	8.5-9.5
Vapour Pressure	Not available	Relative Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Volatile Component	30%
Partition Coefficient: n-octanol/water (log value)	Not available	Flash Point	Not applicable
Flammability	Non combustible	Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available	Flammable Limits - Upper	Not available
Explosion Properties	Not available	Oxidising Properties	Not available

## Section 10 - Stability and Reactivity

### Chemical Stability

Stable under normal conditions of handling and storage.

### Possibility of hazardous reactions

The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine is moderately toxic.(LD50 (oral, rat): 700 mg/kg, TWA 2 ppm).

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible Materials

Strong oxidising agents. Acids. Alkalis.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including: hydrogen chloride, phosgene, carbon monoxide and carbon dioxide.

### Reactivity and Stability

Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D acid and largely de-activate the product and cause blockages in spray equipment.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### Toxicology Information

Toxicity data for 2,4-dichlorophenoxyacetic acid ( 2,4-D) is given below.

#### Acute Toxicity - Oral

LD50 (rat): 699 mg/kg (2,4-D)

#### Acute Toxicity - Dermal

LD50 (rat): 2000 mg/kg (2,4-D)

#### Acute Toxicity - Inhalation

LC50 (rat): >1.79 mg/l/4h (2,4-D)

**Ingestion**

Harmful if swallowed. Ingestion of the product in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.

**Inhalation**

The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. A moderate hazard exists from inhalation of spray and care should be taken to avoid inhalation of spray mists.

**Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling. Prolonged contact of the concentrate with skin will result in absorption of some 2,4-D which can be harmful. May cause an allergic skin reaction.

**Eye**

Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness. Prolonged contact with the concentrate may cause damage to the eye.

**Respiratory Sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

May cause an allergic skin reaction.

**Germ Cell Mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

The weight of the evidence is that 2,4-D is not carcinogenic.

**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.

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

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Other Information**

The Australian Acceptable Daily Intake (ADI) for 2,4-D for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL 5 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) September 2024).

## Section 12 - Ecological Information

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**Ecotoxicity**

Toxic to aquatic life with long lasting effects. ( 2,4 D salts)

**Persistence and degradability**

Half life of 2,4-D in soil is typically 7 days. Loss from soil is principally by microbial degradation. Not inhibitory in sewage system, 2,4-D is rapidly biodegraded.

**Mobility**

Rapid degradation in soil of 2,4 D prevents significant downward movement under normal conditions.

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

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

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

**Acute Toxicity - Fish**

LC50 (Pimephales promelas, fathead minnow): 100 mg/l/96h ( for 2,4-D)

**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 to the chemical, refer to Section 8—Exposure controls and personal protection.

**Container Disposal and Methods**

Do not use this container for any other purpose. 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, puncture or shred and bury containers in local authority landfill. 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.

## Section 14 - Transport Information

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**Transport Information**

Road and Rail Transport (ADG Code):

This product complies with the requirements of Special Provision AU01 and is therefore exempted from being classified as Dangerous Goods according to the ADG Code.

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 2,4 D 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 2, 4- D salts)

Packing Group: III

Label: Miscellaneous

Packaging Instructions (passenger & cargo): 964

Packaging Instructions (cargo only): 964

Special provisions: A97, A158, A197, A215

**UN Number**

None Allocated

**Proper Shipping Name**

None Allocated

**Transport Hazard Class**

None Allocated

**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**

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).

**Poisons Schedule**

S6

**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: 56763.

**Basel Convention**

Not available

## Section 16 - Any Other Relevant Information

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**Date of Preparation**

SDS Reviewed: November 2024

Supersedes: April 2022

**Version Number**

3.0

**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

**END OF SDS**

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