# SAFETY DATA SHEET

## WEEDMASTER® DUO DUAL SALT TECHNOLOGY HERBICIDE

**Infosafe No.: 3NU50**
**ISSUED Date : 24/01/2023**
**ISSUED by: NUFARM AUSTRALIA LIMITED.**

## Section 1 - Identification

**Product Identifier**
WEEDMASTER® DUO DUAL SALT TECHNOLOGY HERBICIDE

**Product Code**
0533 NUL0540

**Product Type**
Group M 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)

**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 annual, perenial and aquatic weeds in many situations as per the Directions for Use table on the label.

## Section 2 - Hazard(s) Identification

**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.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

## Section 3 - Composition and Information on Ingredients

**Ingredients**

| Name | CAS | Proportion |
|---|---|---|
| Glyphosate isopropylamine salt | 38641-94-0 | - |
| Glyphosate as ammonium salt | 114370-14-8 | - |
| Ingredients determined not to be hazardous | | Balance |

**Information on Composition**
Glyphosate present at 360 g/L as the isopropylamine and ammonium salts.

## 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 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**
Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## Section 5 - Firefighting Measures

**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, smoke and gases including oxides of nitrogen or phosphorus.

**Specific hazards arising from the chemical**
This product, or spray solutions of this product, react with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixture.

**Special Protective Equipment and Precautions for Firefighters**
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

**Decomposition Temperature**
Not available

## Section 6 - Accidental Release Measures

**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.

## Section 7 - Handling and Storage

**Precautions for Safe Handling**
Always read the label and any attached leaflet before use. 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. Do not spray in high winds. 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. Do not store with seed, fertilisers or foodstuffs. Ensure that storage conditions comply with applicable local and national regulations.
Corrosive to mild steel, galvanised steel and zinc.
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.
Non corrosive to stainless steel, polyethylene and plastics.

## Section 8 - Exposure Controls and Personal Protection

**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 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.

## Section 9 - Physical and Chemical Properties

| Properties | Description | Properties | Description |
|---|---|---|---|
| **Form** | Liquid | **Appearance** | Clear green liquid |
| **Colour** | Green | **Odour** | Faint amine odour |
| **Melting Point** | -10°C | **Boiling Point** | >100°C (water only) |
| **Decomposition Temperature** | Not available | **Solubility in Water** | Soluble |
| **Specific Gravity** | 1.179 | **pH** | 4.5 - 5.0 (7% in water) |
| **Vapour Pressure** | Active ingredient is considered non volatile | **Relative Vapour Density (Air=1)** | Not available |
| **Evaporation Rate** | Not available | **Odour Threshold** | Not available |
| **Viscosity** | Not available | **Volatile Component** | Active ingredient is considered non volatile |
| **Partition Coefficient: n-octanol/water (log value)** | Not available | **Flash Point** | None |
| **Flammability** | Non combustible | **Auto-Ignition Temperature** | Not available |
| **Flammable Limits - Lower** | Not available | **Flammable Limits - Upper** | 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.

**Possibility of hazardous reactions**
Corrosive to mild steel, galvanised steel and zinc.
Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.
Such contact may release isopropylamine and ammonia vapour with a fish like odour, which can be an irritant to eyes.

**Conditions to Avoid**
Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime.

**Incompatible Materials**
Corrosive to mild steel, galvanised steel and zinc.
Strong alkalis and alkaline materials such as lime.

**Hazardous Decomposition Products**
Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.

**Hazardous Polymerization**
Will not occur.

## Section 11 - Toxicological Information

**Toxicology Information**
Toxicity data for material given below.

**Acute Toxicity - Oral**
Similar product
LD50 (rat): >5,000 mg/kg

**Acute Toxicity - Dermal**

Similar product
LD50 (rabbit): >5,000 mg/kg

**Acute Toxicity - Inhalation**
LC50 (rat): >1.3 mg/l/4h
LC50 concentration not reached.

**Ingestion**
Ingestion of this product may irritate the gastric tract causing nausea vomiting and gastrointestinal discomfort and diarrhoea. 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.

**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 2022.)

## Section 12 - Ecological Information

**Ecotoxicity**
The available ecological data is given below.

**Persistence and degradability**
Average field half life of glyphosate is 15 days.
Adsorption studies indicate that glyphosate has very low mobility.

**Mobility**
Not available

**Bioaccumulative Potential**
Not available

**Other Adverse Effects**
Not available

**Environmental Protection**
Glyphosate is a non-selective contact herbicide.

Spray drift can cause damage, read the label for more information.
Prevent large amounts from entering waterways, drains and sewers.
This product is permitted for the control of certain weed species in waterways. Carefully read the precautions under 'Aquatic Weed Control' in the 'Directions For Use' table on the label.

**Acute Toxicity - Fish**
LC50 (rainbow trout): 1080 mg/l/96h for similar product.

**Acute Toxicity - Daphnia**
EC50 (daphnia):488 mg/l/48h for similar product.

**Acute Toxicity - Algae**
ErC50 (algae): 393 mg/l/72h for a similar product.

**Acute Toxicity - Other Organisms**
Birds: Not toxic to birds. LD50 (mallard ducks and bobwhite quail (diet)): >5000 mg/kg
Bees: Not toxic to bees. LD50: >100 µg/bee.
LC50 (Litoria ewingii tadpole): >1000 mg/L/96h

**Hazardous to the Ozone Layer**
This product is not expected to deplete the ozone layer.

## Section 13 - Disposal Considerations

**Disposal Considerations**
The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. To minimise personal exposure to the chemical, 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.
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.
Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.
If recycling, replace cap and return clean containers to recycler or designated collection point.
Do not dispose of undiluted chemicals on site.
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.
Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the spray tank.
DO NOT burn empty containers or product.

## Section 14 - Transport Information

**Transport Information**
Road and Rail Transport (ADG Code):
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**ADG U.N. Number**
None Allocated

**ADG Proper Shipping Name**
None Allocated

**ADG Transport Hazard Class**
None Allocated

**Special Precautions for User**
Not available

**IMDG Marine pollutant**
No

**Transport in Bulk**
Not available

## Section 15 - Regulatory Information

**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).
Australia: 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 listed

**Agricultural and Veterinary Chemicals Act 1994**
APVMA product number: 53576.
This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

**Basel Convention**
Not listed

## Section 16 - Any Other Relevant Information

**Date of Preparation**
SDS Reviewed: January 2023
Supersedes: October 2019 and May 2017.

**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

**User Codes**

| User Title Label | User Codes |
|---|---|
| Field 4 | Y |

## END OF SDS

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