

Infosafe No™ 3NU50	Issue Date : May 2019	ISSUED by NUFARM
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Product Name **WEEDMASTER® Duo Dual Salt Technology Herbicide**

Not classified as hazardous

1. Identification

GHS Product Identifier	WEEDMASTER® Duo Dual Salt Technology Herbicide
Product Code	0533
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)
Recommended use of the chemical and restrictions on use	For the control of annual, perennial and aquatic weeds in many situations as per 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

General	If medical advice is needed, have product container or label at hand.
Precautionary Statement (s)	Keep out of reach of children. Read label before use.
Other Information	Poisons Schedule S5 Not classified as a hazardous chemical under the GHS criteria.

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Glyphosate present as the isopropylamine and monoammonium salts	1071-83-6	360 g/L
	Water		Balance

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. Obtain 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. Do not give anything by mouth to a semi-conscious or unconscious person. Rinse mouth thoroughly with water.
Skin	Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.
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.

5. Fire-fighting measures

Suitable extinguishing media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Water, foam, carbon dioxide or dry chemical.
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Hazards from Combustion Products	Keep upwind. 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 for fire fighters	If involved in a major fire, could evolve oxides of nitrogen or phosphorus. Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
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 in sealed open top containers for disposal. Final clean-up with degreasing agent or detergent is advised.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	For personal protective equipment (PPE) and hygiene advice, refer Section 8. Do NOT spray in high winds.
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. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standard has been established for this product.
Appropriate engineering controls	No special ventilation required.
Personal Protective Equipment	When preparing product for use wear elbow-length PVC gloves and face shield or goggles. When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear.
Hygiene Measures	After each day's use, wash contaminated clothing and safety equipment. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
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 green liquid
Odour	Faint amine odour
Melting Point	-10°C
Boiling Point	>100°C (water only)
Solubility in Water	Soluble in water.
Specific Gravity	1.179
pH	4.5 - 5.0 (7% in water)
Vapour Pressure	Active ingredient is considered non volatile
Flash Point	None

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Flammability Non combustible material.

10. Stability and reactivity

Incompatible Materials Corrosive to mild steel, galvanised steel and zinc.
Non corrosive to stainless steel, polyethylene and plastics.
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.

Possibility of hazardous reactions 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.
Isopropylamine is moderately toxic, LD50 (oral, rat) is 820 mg/kg and a TLV of 5 ppm (TWA) has been set.
TLV (TWA) for ammonia is 25ppm.
Hazardous polymerisation is not possible.

Hazardous Polymerization

11. Toxicological Information

Toxicology Information No harmful effects are expected if the precautions on the label and this MSDS are followed.

Acute Toxicity - Oral LD50 (rat) >5,000 mg/kg for a similar product

Acute Toxicity - Dermal LD50 (rabbit) >5000 mg/kg for a similar product

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

Ingestion The concentrate is of low toxicity if swallowed.
Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea.
Ingestion of a large quantity of the undiluted product may result in hypotension and pulmonary oedema.

Inhalation When applying the product as a spray avoid breathing in spray mist.
May cause irritation to mucous membranes and respiratory tract.

Skin The concentrated product may cause slight irritation on contact.
Prolonged contact is likely to result in irritation.

Eye The concentrate may cause irritation of the eyes.
Prolonged contact with the concentrate may cause damage to the eye.

Skin Sensitisation Product is not a skin sensitiser.

Carcinogenicity The Australian Pesticide and Veterinary Medicine Authority (APVMA) and other regulatory agencies classify glyphosate as non-carcinogenic based on the weight-of-evidence. In 2015 the International Agency for Research on Cancer (IARC) concluded that glyphosate was probably carcinogenic to humans. This finding was considered by the APVMA in its 2016 review (1).

Chronic Effects No information available, no chronic effects expected.

Serious eye damage/irritation Slight irritant

Skin corrosion/irritation Slight irritant.

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: Aust Govt Dept. of APVMA, 'ADI List', June 2019).

12. Ecological information

Persistence and degradability Adsorption studies indicate that glyphosate has very low mobility.
Average field half life of glyphosate is 47 days.

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Known Harmful Effects on the Environment	Glyphosate products do not appear to pose any threat to birds.
Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Environmental Protection	Glyphosate is a non-selective contact herbicide. Spray drift can cause damage, read the label for more information. 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 (96hr) for rainbow trout is >989 mg/l. LC50 (96hr) for carp is >895 mg/l. Not toxic to fish. The above data is for the formulated product.
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia is 675 µg/l for the formulated product
Acute Toxicity - Algae	EC50 (72hr) for algae 150 mg/l.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail (diet) is >5620 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee. LC50 (96hr) for leopard frog tadpole is >1040 mg/l

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	Do not use this container for any other purpose. Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. 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. 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. DO NOT burn empty containers or product.

14. Transport information

Transport Information Storage and Transport	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. Not classified as a Dangerous Good for transport by road and rail (ADG 7), by sea (IMDG 2014) or by air (IATA).
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15. Regulatory information

Regulatory Information Poisons Schedule	Australia: WHS regulations (2011) - Schedule 11: classification not listed. S5
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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: 53576.

16. Other Information

Date of preparation or last revision of SDS Revised 07/05/2019.
This SDS replaces document dated March 2017.

Literature References (1). APVMA 2016 Regulatory position: consideration of the evidence for a formal reconsideration of glyphosate - (<https://apvma.gov.au/sites/default/files/publication/20701-glyphosate-regulatory-position-report-final.pdf>)

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. Various changes were made to the information.
Section 11 - Carcinogenicity.
Section 16 - Literature reference.
...End Of MSDS...

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