



Infosafe No™ 3NUQ7	Issue Date : July 2019	ISSUED by NUFARM
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 Product Name **WEEDMASTER® DRY**

1. Identification

GHS Product Identifier	WEEDMASTER® DRY
Product Code	01700
Product Type	Herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency phone number	0800 651 911
Email	nzinfo@nufarm.com
Recommended use of the chemical and restrictions on use	For brushweed control and general weed control in agriculture, horticulture, industrial areas, forestry, recreational areas and aquatic situations.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

Signal Word (s)	DANGER
Hazard Statement (s)	H303 May be harmful if swallowed. H313 May be harmful in contact with skin. H333 May be harmful if inhaled. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.
General Precautionary Statement (s)	P101 If medical advice is needed, have product container or label at hand.
Pictogram (s)	Corrosion, Environment, <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
Precautionary statement – Prevention	P102 Keep out of reach of children. P103 Read label before use. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	P304+312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. 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. P391 Collect spillage.
Other Information	6.1E acute toxicant, 8.3A eye corrosive, 9.1B aquatic toxicant, Non-selective herbicide - very toxic to some plant species.

3. Composition/information on ingredients

Chemical Characterization	Solid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Glyphosate present as the ammonium salt	40465-66-5	680 g/kg
	Ethoxylated Tallow Amine	61791-26-2	10-30 %w/w

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Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Stabilisers (non-hazardous)		Balance

4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye contact	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
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 fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	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. If involved in a major fire, could evolve oxides of nitrogen or phosphorus.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2Z
Decomposition Temp.	Data not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent contamination of soil and water. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. Handling and storage

Precautions for Safe Handling	It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist. CERTIFIED HANDLER: Is not required. TRACKING: Is not required.
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Conditions for safe storage, including any incompatibilities	<p>RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>Keep out of reach of children.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.</p> <p>Stores containing 1,000kg of WEEDMASTER DRY are subject to signage, and more than 1,000kg require emergency response plans.</p>
Recommended Materials	<p>This product and solutions of this product should be mixed, stored and applied only in stainless steel, aluminium, brass, copper, fibreglass, plastic or plastic lined containers. Do not mix or store this product in galvanized or unlined steel (except stainless steel) containers or spray tanks. This product or solutions of this product react with such containers to produce hydrogen gas which may form a highly combustible gas mixture which can flash or explode if ignited.</p>
Other Information	<p>Always read the label and any attached leaflet before use.</p> <p>Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.</p>

8. Exposure controls/personal protection

Occupational exposure limit values	<p>The EEL for glyphosate is set at 0.37mg/L.</p> <p>As with all dusts the WES for particulates not otherwise classified = 10mg/m³.</p>
Appropriate engineering controls	<p>Handle in well ventilated areas, generally natural ventilation is adequate.</p>
Personal Protective Equipment	<p>When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, boots, and a NIOSH approved half face mask with organic vapour cartridge + dust/mist prefilter.</p>
Hygiene Measures	<p>Do not eat, drink or smoke while using.</p> <p>Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.</p>

9. Physical and chemical properties

Form	Solid
Appearance	Pale yellow granules
Odour	Musty odour
Decomposition Temperature	Data not available.
Melting Point	Data not available.
Freezing Point	Not applicable.
Boiling Point	Data not available.
Solubility in Water	Soluble in water.
pH	3.8 - 6.0 (1% solution)
Vapour Pressure	Data not available.
Vapour Density (Air=1)	Data not available.
Partition Coefficient: n-octanol/water	Kow log P= <-3.2 (pH 5-9, 20°C) for glyphosate
Density	0.61g/mL
Flash Point	> 93°C
Flammability	Non combustible material.
Auto-Ignition Temperature	Not applicable.

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Flammable Limits - Lower Not applicable.
Flammable Limits - Upper Not applicable.
Kinematic Viscosity Not applicable.
Other Information (SG) Water Soluble Granule

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Incompatible Materials Avoid contact with alkaline 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.
 This product and spray solutions of this product may react with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas that may form a highly combustible gas mixture.
 Hazardous polymerisation will not occur.

Hazardous Polymerization

11. Toxicological Information

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

Acute Toxicity - Oral LD50 (rat) = >5,000mg/kg for glyphosate

Acute Toxicity - Dermal LD50 (rabbit) = >5,000mg/kg for glyphosate

Acute Toxicity - Inhalation LC50 4h (rat) = >5.0mg/L air

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.
 Oral ingestion of large quantities of a similar product has been reported to result in hypotension and lung edema.

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

Respiratory sensitisation Not classified.

Skin Sensitisation Not classified.

Germ cell mutagenicity Data not available.

Carcinogenicity Various regulatory agencies classify glyphosate as non-carcinogenic. The International Agency for Research on Cancer (IARC) classified glyphosate as 'probably carcinogenic to humans' (Group 2A). This finding was considered by various regulators post 2015.

Reproductive Toxicity Not classified.

STOT-repeated exposure Not classified.

Chronic Effects No information available, no chronic effects expected.

Serious eye damage/irritation The concentrate will cause severe irritation and possible damage unless washed off immediately.

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

Skin corrosion/irritation Not classified.

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

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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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014).

This material contains less than 0.4% sodium sulphite. In sulphite-sensitive individuals, skin reactions have been reported following dermal exposures and respiratory reactions have been reported on ingestion of food, or inhalation of medicines which contain related sulphiting agents (bisulphites or metabisulphites) as preservatives. Individuals with asthma may be more prone to these types of reactions.

12. Ecological information

Persistence and degradability	Adsorption studies indicate that glyphosate has very low mobility. Average field half life of glyphosate is 47 days.
Mobility	In soil(field)= DT50 1-130 d for glyphosate, depending on edaphic and climatic conditions.
Bioaccumulative Potential	Glyphosate is not bioaccumulative. BCF = <1 (for glyphosate) Kow LogP = <-3.7 for glyphosate mono ammonium salt
Other Precautions	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.
Environmental Protection	Glyphosate is a non-selective contact herbicide. Spray drift can cause damage.
Acute Toxicity - Fish	LC50 (96h) Bluegill sunfish 120 mg/L for glyphosate
Acute Toxicity - Daphnia	LC50 (48h) = 780mg/L for glyphosate
Acute Toxicity - Algae	Acute EC50 (96h) Skeletonema costatum (diatom) = 1.3mg/L for glyphosate
Acute Toxicity - Other Organisms	Acute oral LD50 for bobwhite quail = >3850mg/kg (for glyphosate) Bee LD50 (contact and oral) = >100µg/kg (for glyphosate)

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Ensure container is completely empty. Burn in an appropriate incinerator if circumstances, such as wind direction, permit. Otherwise crush and bury in an appropriate landfill.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (glyphosate, 68%)
Transport hazard class(es)	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
IMDG EMS	F-A, S-F
Other Information	Do not carry this product on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

15. Regulatory information



Safety Data Sheet

infosafe
CS: 1.7.2

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National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P8769 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000219 See www.epa.govt.nz for approval controls.
Hazard Rating Systems	NFPA/HMIS: 2-1-1

16. Other Information

Date of preparation or last revision of SDS June 2019

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions Highlighted Minor changes made to the sub section-carcinogenicity under section 11.

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