

Page: 1 of 5

Infosafe No™ 3NURA

Issue Date : August 2013

ISSUED by NUFARMNZ

Product Name WEEDMASTER® TS470

ethoxylated Water

1. Identification							
GHS Product Identifier	WEEDMASTER® TS470						
Product Code	01400						
Product Type	Herbicide						
Company Name	Nufarm NZ						
Address Telephone/Fax Number Emergency phone	6 Manu Street, Otahuhu Auckland 2024 New Zealand Tel: 0-9-270 4157 Fax: 0-9-270 4159 0800 651 911	d					
number Email	info@nz.nufarm.com						
Recommended use of the chemical and restrictions on use	A foliar herbicide for the broadleaf weeds.	e control of	most annual and perennial grasses and				
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 Identifi	cation						
Other Information	aquatic toxicant, TOXICITY Harmful - may be harmful May cause mild skin irrita CORROSIVE	ation. s corrosive sms with lon	ed, inhaled or absorbed through the skin. and may cause eye damage. g-lasting effects.				
3. Composition/in	formation on ingredients						
Chemical Characterization	Liquid						
Ingredients	Name C	AS	Proportion				
	the potassium and 1 ammonium salts)	0901-12-1 & 14370-14-8	470 g/L 0-<10 %				

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	

Balance



Page: 2 of 5

Infosafe No™ 3NURA

Issue Date : August 2013

ISSUED by NUFARMNZ

Product Name WEEDMASTER® TS470

	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, foam, carbon dioxide or dry chemical.
Hazards from	This product, or spray solutions of this product, react with galvanised steel
Combustion	or unlined steel (except stainless steel) containers and tanks, to produce
Products	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	Full protective clothing and self-contained breathing apparatus.
Equipment for fire	
fighters	
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	2X
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. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Final clean-up with degreasing agent or detergent is advised.
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

7. Handhing and S	8
Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when applied directly onto or into water. TRACKING: Is not required RECORD KEEPING: Not applicable BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Solutions of WEEDMASTER TS470 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 other (covert attainless steel) containers or spray tapks.
	steel (except stainless steel) containers or spray tanks. WEEDMASTER TS470 or solutions of WEEDMASTER TS470 react with such containers to produce hydrogen gas which may form a highly combustible gas mixture which can flash or explode if ignited.
Conditions for safe storage, including any incompatabilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area
Corrosiveness	and are subject to signage, and more than 1,000L require emergency response plans. Corrosive to eyes.
Other Information	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. Avoid contact with foliage or green stems of fruit or crops, desirable plants and trees, since severe injury or death may occur. Do not allow drift to occur outside the target area.

8. Exposure controls/personal protection



Page: 3 of 5

Infosafe No™ 3NURA

Issue Date : August 2013

ISSUED by NUFARMNZ

Product Name WEEDMASTER® TS470

Occupational exposure limit values	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate	Handle in well ventilated areas, generally natural ventilation is adequate.
engineering controls	
Personal Protective	When opening the container, preparing spray and using the prepared spray wear
Equipment	safety goggles, impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots)
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.
9 Physical and ch	emical properties

9. Physical and chemical properties

Form	Liquid
Appearance	Golden yellow liquid
Odour	Mild surfactant odour
Boiling Point	>100°C (water)
Solubility in Water	Soluble
Specific Gravity	1.29g/mL @ 20°C
рН	4.4 - 5.0 (1% aqueous)
Partition Coefficient: n-octanol/water	Kow Log P is <-3.2 (pH2-5, 20°C) for glyphosate
Flammability	Non combustible material.
Other Information	(SL) Soluble concentrate

10. Stability and reactivity

ty	Stable	under	normal	conditions	of	handling	and	storage.	
----	--------	-------	--------	------------	----	----------	-----	----------	--

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Non corrosive to stainless steel, polyethylene and plastics. WEEDMASTER TS470 reacts with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas that may form a highly combustible gas mixture.
Possibility of	Avoid contact of the concentrate with strong alkalis and alkaline materials
hazardous reactions	such as lime. Such contact may release ammonia vapours with a strong characteristic odour, which is an irritant to eyes. Ammonia is moderately toxic, with a WES TWA TLV of 25ppm or 17mg/m3.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

III Iomeological I	
Toxicology Information	No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity - Oral	LD50 (rat) = 4,613mg/kg for glyphosate ammonium salt
Acute Toxicity - Dermal	LD50 (rat) = >5,000mg/kg for glyphosate potassium salt LD50 (rabbit) >5,000mg/kg for both glyphosate ammonium salt and glyphosate potassium salts
Acute Toxicity - Inhalation	LC50(rat) (whole body) >1.9mg/L air for glyphosate ammonium salt LC50 (rat >5.27mg/L air for glyphosate potassium salt
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.



Page: 4 of 5

Infosafe No™ 3NURA

Issue Date : August 2013

ISSUED by NUFARMNZ

Product Name WEEDMASTER® TS470

Eye	The concentrate may cause irritation of the eyes.
Skin Sensitisation	Prolonged contact with the concentrate may cause damage to the eye. Not a contact sensitiser.
Carcinogenicity	No data to support a positive result.
Reproductive Toxicity	No data to support a positive result.
Chronic Effects	No information available, no chronic effects expected.
Mutagenicity	No data to support a positive result.
Respiratory Irritation	No data available to indicate product is a respiratory sensitiser.
Skin	Slight irritant.
corrosion/irritation	
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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2013).

12. Ecological information

Persistence and	Adsorption studies indicate that glyphosate has very low mobility.		
	DT50 varies from 1-130 days depending on environmental conditions for		
degradability	glyphosate		
D : 1.4	5 11		
Bioaccumulative	Glyphosate is not bio accumulative, BCF = <1 for bluegill sunfish.		
Potential			
Other Precautions	Do not spray in high winds.		
	Do not contaminate dams, waterways or sewers with this product.		
Environmental	Glyphosate is a non-selective contact herbicide.		
Protection	Spray drift can cause damage.		
Acute Toxicity - Fish	LC50 (96h) for Bluegill sunfish is 45mg/L for glyphosate		
2	LC50 (96h) for trout is 86mg/L for glyphosate		
	LC50 (96h) for trout >1,227mg a.e./L for glyphosate potassium salt		
Acute Toxicity -	LC50 (48hr) for daphnia is >1,227mg a.e./L for glyphosate potassium salt		
Daphnia			
Acute Toxicity -	EbC50(72h) green algae (Selenastrum capricornutum) = 35mg a.e./L for glyhosate		
Algae	potassium salt		
Acute Toxicity -	Acute oral LD50 for bobwhite quail >2,241mg a.e/kg for glyphosate potassium		
Other Organisms	salt		
other organishis	Bee LD50 (48h) (contact & oral) >100 μg a.e/bee for glyphosate potassium salt		

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. Transport information

Transport Information U.N. Number	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. 3082
UN proper shipping name Transport hazard class(es) Hazchem Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (glyphosate, 47%) 9 2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47



Safety Data Sheet

Page: 5 of 5

Infosafe No™ 3NURA	Issue Date :August 2013	ISSUED by NUFARMNZ
--------------------	-------------------------	--------------------

Product Name WEEDMASTER® TS470

IMO Marine Pollutant IMDG EMS	Yes. Environmentally Hazardous Substance mark required. 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 in	formation
National and or International Regulatory Information Hazard Rating Systems Hazard Category	Registered pursuant to the ACVM Act 1997, No. P8843 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR100083 See www.epa.govt.nz for approval controls. NFPA/HMIS: 3-1-0 HARMFUL * CORROSIVE * ECOTOXIC - Keep out of reach of children

 Date of preparation or last revision of SDS
 Not applicable - first issue

 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 ...End Of MSDS...

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.