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Infosafe No™ 3NURA Issue Date : July 2019 ISSUED by NUFARM

Product Name WEEDMASTER® TS470

1. Identification

GHS Product

WEEDMASTER® TS470

Identifier

01400 **Product Code** Herbicide **Product Type** Nufarm N7 **Company Name**

Address 6 Manu Street, Otahuhu

Auckland 2024 New Zealand

Telephone/Fax

Number

Emergency phone

number

0800 651 911

info@nz.nufarm.com Email

Recommended use of the chemical and restrictions on use

Tel: 0-9-270 4150

A foliar herbicide for the control of most annual and perennial grasses and broadleaf weeds.

This SDS describes, to the best of our knowledge, the properties of the Other Information 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

Other Information

6.1D acute toxicant, 6.3B skin irritant, 8.3A eye corrosive, 9.1B

aquatic toxicant,

TOXICITY

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.

May cause mild skin irritation.

CORROSIVE

Danger - this product is corrosive and may cause eye damage.

ECOTOXIC

Toxic to aquatic organisms with long-lasting effects.

Non-selective herbicide - toxic to plants.

3. Composition/information on ingredients

Liquid Chemical

Characterization

Ingredients Name CAS Proportion

470 g/L Glyphosate (present as 70901-12-1 & 114370-14-8 the potassium and

ammonium salts)

Amines, tallow alkyl, 61791-26-2

ethoxylated

Water Balance

4. First-aid measures

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a First Aid Measures

doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical

0-<10 %

attention.

Remove patient to fresh air. Lay down and keep warm and rested. If breathing Inhalation

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Never give anything by mouth to an unconscious person. If swallowed do NOT Ingestion

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Immediately flush body and clothes with large amounts of water. Remove Skin

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Flush eyes with plenty of water for 15 minutes holding eyelids open if Eve contact

necessary. Seek medical assistance. Remove contact lenses, if present and





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easy to do.

Facilities storing or utilizing this material should be equipped with an First Aid Facilities

eyewash facility and safety shower.

Treat symptomatically. Advice to Doctor

5. Fire-fighting measures

Suitable extinguishing media Hazards from Combustion **Products**

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. 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.

Do not allow washings to reach sewage or effluent systems.

Special Protective Equipment for fire fighters

Full protective clothing and self-contained breathing apparatus.

Keep up wind. Specific Methods **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

Clear area of unprotected personnel. Wear protective clothing. 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.

Personal Protection

Final clean-up with degreasing agent or detergent is advised. 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

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 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 away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 1,000L of WEEDMASTER TS470 require secondary containment and are subject to signage, and more than 1,000L require emergency response plans.

Corrosiveness Corrosive to eves.

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





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Occupational exposure limit values

No exposure limits (WES, TEL or EEL's) have been specifically assigned for

this product.

Appropriate

engineering controls **Personal Protective** Equipment

Handle in well ventilated areas, generally natural ventilation is adequate.

When opening the container, preparing spray and using the prepared spray wear impervious gloves, waterproof hat, coat and trousers (worn safety goggles,

outside rubber boots)

Do not eat, drink or smoke while using. **Hygiene Measures**

Remove protective clothing and wash hands and face thoroughly before meals

and after work.

Wash protective clothing daily after work.

9. Physical and chemical properties

Liquid Form

Clear green liquid **Appearance** Mild surfactant odour Odour

>100°C (water) **Boiling Point**

Solubility in Water Soluble

1.29g/mL @ 20°C **Specific Gravity**

4.4 - 5.0 (8% aqueous)

Partition Coefficient: Kow Log P is <-3.2 (pH2-5, 20° C) for glyphosate

n-octanol/water

Flammability

Non combustible material.

Other Information (SL) Soluble concentrate

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Incompatible

Non corrosive to stainless steel, polyethylene and plastics.

Materials

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

such as lime. hazardous reactions

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 polymerisation will not occur. Hazardous

Polymerization

11. Toxicological Information

Toxicology

No harmful effects are expected if the precautions on the label and this SDS

LD50 (rabbit) >5,000mg/kg for both glyphosate ammonium salt and glyphosate

are followed. Information

Acute Toxicity - Oral LD50 (rat) = 4,613mg/kg for glyphosate ammonium salt

LD50 (rat) = >5,000mg/kg for glyphosate potassium salt

Acute Toxicity -Dermal

potassium salts

Acute Toxicity -

LC50(rat) (whole body) >1.9mg/L air for glyphosate ammonium salt

LC50 (rat >5.27mg/L air for glyphosate potassium salt Inhalation

The concentrate is of low toxicity if swallowed. Ingestion 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.

When applying the product as a spray avoid breathing in spray mist. Inhalation

May cause irritation to mucous membranes and respiratory tract. The concentrated product may cause slight irritation on contact.

Skin Prolonged contact is likely to result in irritation.





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Eye The concentrate may cause irritation of the eyes.

Prolonged contact with the concentrate may cause damage to the eye.

Not a contact sensitiser. **Skin Sensitisation**

Various regulatory agencies classify glyphosate as non-carcinogenic. The Carcinogenicity

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**

No data to support a positive result.

Chronic Effects

No information available, no chronic effects expected.

Mutagenicity No data to support a positive result.

Slight irritant.

Respiratory Irritation Skin

No data available to indicate product is a respiratory sensitiser.

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

Adsorption studies indicate that glyphosate has very low mobility. Persistence and

degradability DT50 varies from 1-130 days depending on environmental conditions for

Glyphosate is not bio accumulative, BCF = <1 for bluegill sunfish.

Bioaccumulative

Potential

Other Precautions Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.

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

Protection

Spray drift can cause damage.

LC50 (96h) for Bluegill sunfish is 45mg/L for glyphosate **Acute Toxicity - Fish**

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

EbC50(72h) green algae (Selenastrum capricornutum) = 35mg a.e./L for glyhosate

Acute Toxicity -

potassium salt

Algae

Acute oral LD50 for bobwhite quail >2,241mg a.e/kg for glyphosate potassium Acute Toxicity -

salt Other Organisms

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

Otherwise crush and bury in a suitable landfill. container.

14. Transport information

Transport It is good practice not to transport agricultural chemical products with

food, food related materials and animal feedstuffs. Information

U.N. Number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (glyphosate, 47%) UN proper shipping

name

Transport hazard class(es)

2X **Hazchem Code Packaging Method Packing Group** TTT





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EPG Number

IERG Number 47

IMO Marine

Environmentally Hazardous Substance mark required.

Pollutant

F-A, S-F IMDG EMS

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

Registered pursuant to the ACVM Act 1997, No. P8843 National and or See www.foodsafety.govt.nz for registration conditions International

Approved pursuant to the HSNO Act 1996, Approval Code HSR100083 Regulatory

See www.epa.govt.nz for approval controls. Information

Packaging &

HARMFUL * CORROSIVE * ECOTOXIC - keep out of reach of children

Labelling

NFPA/HMIS: 3-1-0 **Hazard Rating**

Systems

Hazard Category HARMFUL * CORROSIVE * ECOTOXIC - Keep out of reach of children

16. Other Information

June 2019 Date of preparation

or last revision of

SDS

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 Minor changes made to sub section-carcinogenicity under section-11.

Revisions Highlighted

...End Of MSDS...

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