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Infosafe No™ 3NUR9 Issue Date: October 2016 ISSUED by NUFARMNZ

Product Name WEEDMASTER® TS540

1. Identification

**GHS Product** 

WEEDMASTER® TS540

**Identifier** 

01600 **Product Code** Herbicide **Product Type** Nufarm N7 **Company Name** 

Address 6 Manu Street, Otahuhu

Auckland 2024 New Zealand Tel: 0-9-270 4150

Telephone/Fax Number **Emergency phone** 

Fax: 0-9-270-4159 0800 651 911

number

Email

info@nz.nufarm.com

Recommended use of the chemical and restrictions on use Other Information

A non-residual, non-selective herbicide for weed control prior to planting crops and pasture, prior to harvesting some crops and for general weed control

in horticulture, agriculture, and forestry.

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

Other Information

6.3B skin irritant, 6.9B target organ toxicant, 8.3A eye corrosive, 9.1B

aquatic toxicant,

TOXICITY

Harmful - may cause mild skin irritation. May cause organ damage from

repeated oral exposure at high doses.

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 Glyphosate (present as 70901-12-1 & 540 g/L 38641-94-0 the potassium and isopropylamine salts) 0-10 % Amines, tallow alkyl, 68308-48-5 ethoxylated, phosphates Diethylene glycol 111-46-6 0-10 % 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 Use mouth-to-nose rather than mouth-to mouth. Obtain medical

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 Eye contact





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

easy to do.

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

eyewash facility and safety shower.

**Advice to Doctor** Treat symptomatically.

#### 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.

**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** 

**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

**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 and the water has the potential to leave the place containing the application area.

TRACKING: Is not required

RECORD KEEPING: Not applicable

Spray drift hazard. Apply this product carefully. Spray drift may BEWARE:

cause serious damage to other desirable plants.

Solutions of WEEDMASTER TS540 should be mixed, stored and applied only in stainless steel, aluminium, brass, copper, fibreglass, plastic or plastic Do not mix or store this product in galvanized or unlined lined containers. steel (except stainless steel) containers or spray tanks. WEEDMASTER TS540 or solutions of WEEDMASTER TS540 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 TS540 require secondary containment and are subject to signage, and more than 1,000L require emergency response plans.

Corrosiveness

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.





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#### 8. Exposure controls/personal protection

The EELwater for glyphosate = 0.37mg/L**Occupational** 

The NZ MBIE has set WES for the following components: exposure limit values

WES TWA for diethylene glycol = 23ppm and 101mg/m<sup>3</sup> Handle in well ventilated areas, generally natural ventilation is adequate.

**Appropriate** 

engineering controls

**Personal Protective Equipment** 

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

**Form** Liquid

Clear green liquid. Appearance Odour Mild surfactant odour

>100°C (water) **Boiling Point** 

Solubility in Water Soluble 1.30 **Specific Gravity** 

4.4 - 4.9 (8% aqueous) pН

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

n-octanol/water

Non combustible material. Flammability (SL) Soluble concentrate Other Information

### 10. Stability and reactivity

Stable under normal conditions of handling and storage. **Chemical Stability** 

Incompatible Materials

Non corrosive to stainless steel, polyethylene and plastics.

WEEDMASTER TS540 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 hazardous reactions Avoid contact of the concentrate with strong alkalis and alkaline materials

such as lime.

Such contact may release isopropylamine vapour with a strong fish like

odour, which is an irritant to eyes.

Isopropylamine has an oral LD50  $\bar{\text{(rat)}}$  of 820mg/kg and a WES TWA of 5ppm.

Hazardous polymerisation will not occur. Hazardous

**Polymerization** 

#### 11. Toxicological Information

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

are followed. Information

LD50 (rabbit) = 3,800mg/kg for glyphosate **Acute Toxicity - Oral** 

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

**Acute Toxicity** isopropylamine salt

Dermal

LC50 (rat) (4h) = >1.3mg/L air for glyphosate isopropylamine salt Acute Toxicity -

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





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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.

The concentrate may cause irritation of the eyes. Eye

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

**Skin Sensitisation** Not a contact sensitiser.

No data to support a positive result. Carcinogenicity Reproductive No data to support a positive result.

**Toxicity** 

No information available, no chronic effects expected. **Chronic Effects** 

No data to support a positive result. Mutagenicity

Respiratory **Irritation** Skin

No data available to indicate product is a respiratory sensitiser.

Slight irritant.

corrosion/irritation

The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 Other Information

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

glyphosate

Bioaccumulative

**Potential** 

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

**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 fathead minnows = 97mg/L for glyphosate isopropylamine salt **Acute Toxicity - Fish** 

LC50 (96h) for trout >1,227mg a.e./L for glyphosate potassium salt LC50 (48h) for daphnia = 930mg/L for glyphosate isopropylamine salt LC50 (48h) for daphnia is >1,227mg a.e./L for glyphosate potassium salt

Acute Toxicity -Algae

**Acute Toxicity -**

**Daphnia** 

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

EbC50 (72h) Scendedesmus subspicatus = 72.9mg/L for glyphosate isopropylamine

salt

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

Bee LD50 (48h) (contact & oral) >100 µg a.e/bee for glyphosate potassium salt LC50 (14d) for earthworms = >5,000mg/kg soil for glyphosate isopropylamine

13. Disposal considerations

**Product Disposal** Dispose of product only by using according to the label, or at an approved

landfill.

Triple rinse empty container and add rinsate to spray tank. Recycle empty **Container Disposal** 

container. Otherwise crush and bury in a suitable landfill.

14. Transport information

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

food, food related materials and animal feedstuffs. Information

3082 U.N. Number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (glyphosate, 54%) **UN proper shipping** 

name 9

Transport hazard class(es)

2X Hazchem Code





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**Packaging Method** III **Packing Group EPG Number** 47 **IERG Number** 

**IMO Marine** 

**Pollutant** IMDG EMS

F-A, S-F

Other Information

Do not carry more than 1L of WEEDMASTER TS540 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.

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

Yes. Environmentally Hazardous Substance mark required.

#### 15. Regulatory information

Registered pursuant to the ACVM Act 1997, No. P8828 National and or See www.foodsafety.govt.nz for registration conditions International

Approved pursuant to the HSNO Act 1996, Approval Code HSR100866 Regulatory

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

Labelling

**Hazard Rating** 

Packaging &

NFPA/HMIS: 3-1-0

Systems

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

#### 16. Other Information

August 2013 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

The SDS was reviewed. Change in appearance was made from blue liquid to clear Revisions

Highlighted green liquid due to addition of the green dye.

...End Of MSDS...

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