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Infosafe No™ 3NUA1 Issue Date : August 2020 ISSUED by NUFARMNZ

Product Name THISTROL® PLUS

1. Identification

GHS Product

THISTROL® PLUS

Identifier

00992 **Product Code Product Type** Herbicide Company Name Nufarm NZ

6 Manu Street, Otahuhu Address

Auckland 2024 New Zealand

Telephone/Fax

Tel: 0-9-270 4150

Number

Emergency phone

0800 651 911

number

E-mail Address info@nz.nufarm.com

the chemical and restrictions on use

Recommended use of Selective herbicide for controlling broadleaf weeds in young and established

pastures, cereals, peas and in white clover and grass seed crops.

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

GHS classification of DANGEROUS GOODS.

the

substance/mixture

Other Information

6.1 D acute toxicant, 6.5B sensitiser, 6.8B reproductive or developmental toxicant, 6.9B target organ toxicant, 8.3A eye corrosive, 9.1A aquatic toxicant, 9.2A soil toxicant, 9.3C terrestial vertebrate toxicant

TOXICITY

Harmful-may be harmful if swallowed, inhaled or absorbed through the skin. May cause sensitisation from prolonged skin contact. May cause liver damage from

repeated oral exposure at high doses.

May cause reproductive/development damage from repeated oral exposure at high

CORROSIVE

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

ECOTOXIC

Very toxic to aquatic organisms with long lasting effects.

Very toxic to the soil environment.

Selective herbicide-very toxic to some plant species.

Harmful to terrestial vertebrates.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion	
	MCPB acid (present as the dimethylamine salt)		375 g/L	
	MCPA (present as the dimethylamine salt)		25 g/L	
	Water, other ingredients (non-hazardous)		To volume	

4. 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.

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





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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.

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

neccessary. Remove contact lenses if present and easy to do. Seek medical

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

If involved in a fire, the product will not burn. Choose extinguishing media to extinguishing media

suit the burning material.

Water fog, foam, carbon dioxide or dry chemical.

May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or Hazards from Combustion exposed to extreme heat.

Products

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 2X

Other Information Location Certificate: Not applicable

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Wear protective clothing. Clear area of unprotected personnel. Spills & Disposal

liquid 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.

For appropriate personal protective equipment (PPE), refer Section 8. **Personal Protection**

Prevent from entering drains, waterways or sewers. Environmental

This product is a herbicide and spills can damage crops, pastures and **Precautions**

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 in a wide dispersive manner; or used by a commercial

contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.

Spray drift hazard. Apply this product carefully.

cause serious damage to other desirable plants.

Conditions for safe storage, including any incompatibilities 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

Managemnet of Agrichemicals.

Stores containing 100L of THISTROL PLUS require secondary containment and are subject to signage and more than 100L require emergency response plans.

Always read the label and any attached leaflet before use. Other Information

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate





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quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

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. When working with the concentrate in confined spaces, it is recommended that engineering controls

forced ventilation be used to remove traces of dimethylamine vapour from the

working atmosphere

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, washable hat, cotton overalls buttoned to the

neck and wrist, and 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 chemical properties

Liquid Form

Amber liquid **Appearance**

Slight ammonia odour Odour

-5°C **Melting Point**

>100°C (water) **Boiling Point**

Solubility in Water Soluble 1.086 **Specific Gravity** 9.0 рH

MCPA & MCPB dimethylamine salts are not volatile Vapour Pressure

Volatile Component

Flash Point Not flammable

(SL) Soluble concentrate Other Information

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Incompatible Materials

Reaction of the concentrate or spray mix with acids will precipitate solid MCPA & MCPB and largely de-activate the product and cause blockages in spray

equipment.

Possibility of hazardous reactions May react violently with strong oxidising material such as chlorine.

If strong alkalies such as caustic soda are added, dimethylamine vapour will

be released.

11. Toxicological Information

Toxicology

MCPA:

Information

MCPA is considered to be of moderate toxicity to man. There have been very few reported acute toxic effects on users over many years. Several deaths have been recorded, but all of these have been deliberate suicide, generally using the sodium salt.

MCPB:

MCPB is of moderate toxicity to man.

Acute oral LD50(rat) 962mg/kg(MCPA) **Acute Toxicity - Oral**

Acute oral LD50 (male rats) 4700mg/kg (MCPB)

Acute Toxicity -

Dermal

Acute dermal LD50(rat) >4000mg/kg (percutaneous) (MCPA), >2000mg/kg (MCPB)

Acute Toxicity -Inhalation

Inhalation LC50 (rat) (4hr) >1.14mg/L air (MCPB)





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The concentrate is not considered a serious hazard due to moderate toxicity. Ingestion

However, the concentrate is considered harmful if swallowed, when classified

according to Worksafe Criteria.

Not considered a serious hazard because MCPA and MCPB (dimethylamine salts) Inhalation

are practically non-volatile; however, inhalation of spray mists should be

avoided. Inhalation of the spray is harmful.

The concentrate may cause irritation and possible damage if contact with the Skin

concentrate is prolonged or excessive. Some absorption of MCPA and MCPB

through the skin is possible.

Eye The concentrate may cause irritation and may cause damage if contact is

prolonged.

Acute over exposure: Headache, nausea and vomiting with possible twitches and **Health Hazard**

spasms in extreme cases.

Subchronic/Chronic **Toxicity**

Liver and kidney damage has been noted in laboratory animals but only after excessive doses.

Other Information

The Australian Acceptable Daily Intake (ADI) for MCPA for a human is 0.01mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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).

The Australian Acceptable Daily Intake (ADI) for MCPB for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.1 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 Health, Office of Chemical Safety, 'ADI

List', December 2014).

12. Ecological information

Environmental Protection

Do not spray in areas where damage to sensitive plants may result from direct

application or spray drift. Do not spray in high winds.

Acute Toxicity - Fish

LC50 (rainbow trout): 50-560mg/L (96hr) (MCPA salt solution)

LC50 (rainbow trout): 75mg/L (48hr) (MCPB) LC50 (fathead minnow): 11 mg/L (48hr) (MCPB)

Acute Toxicity -

Not toxic to bees.

Other Organisms

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

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

food, food related materials and animal feedstuffs. Information

U.N. Number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (MCPA, 2.5%; MCPB, UN proper shipping

37.5%) name

Transport hazard

9

47

class(es)

IERG Number

2.X **Hazchem Code**

Packaging Method Packing Group III

EPG Number





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Yes. Environmentally Hazardous Substance mark required. **IMO** Marine

Pollutant

IMDG EMS F-A, S-F

Do not carry this product on a passenger service vehicle. Other Information

> 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. P5956 National and or See www.foodsafety.govt.nz for registration conditions International

Approved pursuant to the HSNO Act 1996, Approval Code HSR000379 Regulatory

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

Packaging & Labelling

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

NFPA/HMIS: 2-1-1 **Hazard Rating**

Systems

16. Other Information

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

5 yearly review carried out. Revisions

Highlighted

Supersedes SDS issued September 2009 Other Information

...End Of MSDS...

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