

Tropotox® Ultra

Date of Issue: 12th Jan 2017

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1. Identification of the Substance/Mixture and Supplier.

Product name:	Tropotox Ultra
Recommended use:	Selective herbicide for controlling broadleaf weeds in young and established pastures, cereals, peas and in white clover and grass seed crops
Company details:	PGG Wrightson 57 Waterloo Road Hornby Christchurch 8042 New Zealand
Telephone:	03 372 0800
Facsimile:	03 344 5195
Emergency telephone:	0800 CHEMCALL (0800 243 622) 24hrs
National Poisons Centre:	0800 Poison (0800 764 766)

2. Hazards Identification.

HSNO Approval Number:	HSR000379
HSNO Hazard Classifications:	6.1D 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 terrestrial vertebrate toxicant
Hazard and Precautionary Statements:	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 doses. CORROSIVE: Danger this product is corrosive and may cause eye damage.

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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 terrestrial vertebrates.

3. Composition/Information on Ingredients.

Chemical Identity of Ingredients with health or environmental hazards:

Ingredient	CAS No.	Proportion
MCPB acid (present as the dimethylamine salt)	94-81-5 (acid)	375 g/L
MCPA (present as the dimethylamine salt)	2039-46-5	25/ g/L
Water, other ingredients (non-hazardous)	-	To volume

4. First Aid Measures.

First Aid Measures

For advice contact the National Poisons Centre, 0800 764 766, (0800 POISON), 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.

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.

Eye Contact:

Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses if present and easy to do. Seek medical assistance.

Skin Contact:

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.

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.

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Note to Physician:	Treat symptomatically.
First Aid facilities:	Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.
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.
HAZCHEM code:	2X
Hazards from Combustion:	May emit toxic fumes of hydrogen chloride or phosgene if involved in fires or exposed to extreme heat.
Special Protective Equipment and Precautions for Fire Fighters	Full protective clothing and self-contained breathing apparatus. Keep up wind. Do not allow washings to reach sewage or effluent systems.
6. Accidental Release Measures.	
Personal Precautions:	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.
Environmental Precautions:	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.
Spills and Disposal:	Wear protective clothing. Clear area of unprotected personnel. Contain 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.
7. Handling and Storage.	
Handling Practices:	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 wider dispersive manner; or used by a commercial contractor.

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Storage:	<p>TRACKING: Is not required.</p> <p>RECORD KEEPING: Records of use as described in NZS8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.</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 Management of Agrichemicals. Stores containing 100L of Tropotox Ultra require secondary containment and are subject to signage and more than 100L require emergency response plans.</p> <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>
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8. Exposure Control/Personal Protection.

Workplace Exposure Standards:	N/A
Engineering controls:	Handle in well ventilated areas, generally natural ventilation is adequate. When working with the concentrate in confined spaces, it is recommended that 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.
General hygiene:	Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.

9. Physical and Chemical Properties.

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Appearance:	Amber liquid
Odour:	Slight ammonia odour
pH:	9.0
Vapour Pressure:	MCPA & MCPB dimethylamine salts are not volatile
Molecular Weight:	N/A
Vapour Density:	N/A
Boiling Point:	>100 °C (water)
Flashpoint:	Not flammable
Auto ignition temperature:	N/A
Melting point:	-5 °C
Solubility in water:	Soluble
Volatile Component:	50%
Specific gravity:	1.086

10. Stability and Reactivity.

Stability of the Substance:	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.
Hazardous reactions:	May react violently with strong oxidising material such as chlorine. If strong alkalines such as caustic soda are added, dimethylamine vapor will be released.

11. Toxicological Information.

Toxicology Information:	<p>MCPA:</p> <p>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</p>
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	these have been deliberate suicide, generally using the sodium salt. MCPB: MCPB is of moderate toxicity to man.
Acute Toxicity – Oral:	Acute oral LD50 (rat) 962mg/kg MCPA 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
Ingestion:	The concentrate is not considered harmful if swallowed, when classified according to Worksafe criteria.
Inhalation:	Not considered a serious hazard because MCPA and MCPB (dimethylamine salts) are practically non-volatile; however, inhalation of spray mists should be avoided. Inhalation of the spray is harmful.
Skin:	The concentrate may cause irritation and possible damage if contact with the 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.
Subchronic/Chronic Toxicity:	Acute over exposure: Headache, nausea and vomiting with possible twitches and spasms in extreme cases. Liver and kidney damage has been noted in laboratory animals but only after excessive doses. The Australian Acceptable Daily Intake (ADI) for MCPA 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.

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Acute Toxicity – Fish:	LC50 (rainbow trout) : 50-560mg/L (96hr) (MCPA salt solution) LC50 (rainbow trout) : 75mg/L (48hr) (MCPB) LC50 (fathead minnow) : 11mg/L (48hr) (MCPB)
Acute Toxicity – Other Organisms:	Not toxic to bees.
13. Disposal Considerations.	
Product Disposal:	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal:	Triple rinse the empty container and add rinsate to the spray tank. Recycle empty container if possible. Otherwise crush and bury in suitable landfill.
14. Transportation Information.	
UN Proper shipping name:	Environmentally hazardous substance, Liquid, N.O.S. – (MCPA, 2.5%; MCPB, 37.5%)
UN Number:	3082
UN Class:	9
Packing Group:	III
Hazchem Code:	2X
IERG Number:	47
IMO Marine Pollutant:	Yes. Environmentally Hazardous Substance mark required.
EMDG EMS:	F-A, S-F
Transport Information:	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. Do not carry this product on a passenger service vehicle.
Segregation:	Check the Hazardous Substances Regulations and the Land Transport Rule Dangerous Goods 2005, Rule 45001/1 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

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15. Regulatory Information.

HSNO Approval Number:	HSR000379
HSNO Controls:	See www.epa.govt.nz for controls.
ACVM Registration:	See www.foodsafety.govt.nz for registration conditions.
HSNO Classifications:	6.1D, 6.5B, 6.8B, 6.9B, 8.3A, 9.1A, 9.2A, 9.3C
Packaging and Labelling:	HARMFUL * CORROSIVE * ECOTOXIC – keep out of reach of children
Hazard Rating Systems:	NFPA/HMIS: 2-1-1

16. Other Information.

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

IN AN EMERGENCY, DIAL 111 – Fire or Police
 24 hour emergency number - 0800 CHEMCALL (0800 243 622)
 National Poisons Centre - 0800 Poison (0800 764 766)

Date of Preparation: 12/01/2017

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.