


Tropotox Ultra

Section 1: Identification

Product name:	Tropotox Ultra
Other names:	-
Recommended use:	Selective herbicide for controlling broadleaf weeds in young established pastures, cereals, peas and in white clover and grass seed crops.
Manufacturer/Importer details:	PGG Wrightson Limited 1 Robin Mann Place Christchurch Airport Christchurch New Zealand Phone: 03 372 0800
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poison Centre:	0800 POISON (0800 764 766)

Section 2: Hazard identification

	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996.
HSNO Approval:	HSR000379
Hazardous classification:	6.1D, 6.5B, 6.8B, 6.9B, 8.3A, 9.1A, 9.2A, 9.3C
	
Signal word:	DANGER
Hazard statements:	H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H421 Very toxic to soil environment. H433 Harmful to terrestrial vertebrates.
Prevention statements:	P102 Keep out of reach of children. P103 Read label before use. P202 Do not handle until all safety precautions have been read and understood.

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Response statements:	<p>P260 Do not breathe vapours or spray mist. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, protective clothing, eye protection and face protection. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment.</p> <p>P101 If medical advice is needed, have product container or label at hand. P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTRE or doctor if you feel unwell. P363 Wash contaminated clothing before re-use. P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTRE or doctor if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical attention. P308+P313 IF exposed or concerned: Get medical attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTRE or doctor. P391 Collect spillage.</p>
Storage statement:	P405 Store locked up.
Disposal statement:	P501 Dispose of product and containers in accordance with local Regulations. See section 13 for more details.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion w/w*</i>
MCPB acid (present as dimethylamine salt)	94-81-5 (acid)	34.5%
MCPA acid** (present as dimethylamine salt)	2039-46-5 (salt)	2.8%
Water, other non-hazardous ingredients	-	Balance

* % w/w as dimethylamine salt

**MCPA acid is CAS No 94-74-6

Section 4: First-aid measures

First aid measures:	If medical advice is needed, have product container or label at hand. For advice contact National Poisons Centre 0800 POISON [0800 764 766] or a doctor.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice if person feels unwell.

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Ingestion:	Rinse mouth. Get medical advice if person feels unwell.
Skin contact:	Wash with plenty of soap and water. Get medical advice if skin irritation or rash occurs.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call the National Poisons Centre or a doctor.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.
Section 5: Fire-fighting measures	
Flammability:	Non-flammable.
Appropriate extinguishing media:	Choose extinguishing media to suit the burning material.
Combustion products:	May emit toxic fumes or 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.
HAZCHEM code:	3Z
Section 6: Accidental release measures	
Personal precautions:	Wear protective equipment; chemical resistant coveralls, boots, gloves, eye protection. Wear respiratory protection if there is a risk of contact with vapours or mist.
Environmental precautions:	Contain spill. Prevent from entering waterways, drains, sewers. Notify local authorities if contamination of waterway. Prevent chemical contaminating soil.
Procedure for clean up:	Contain and recover liquid into a suitable labelled container for re-use or disposal. Absorb residue or small spills with suitable material, e.g. sand, vermiculite. Dispose of contaminated waste at an approved facility.
Section 7: Handling and storage	
Safe handling:	Read label before use. Wear personal protective equipment. To be used only by suitably qualified person and in compliance with HSNO Controls.
Safe storage:	Keep out of reach of children. Keep container tightly closed when not in use. Store locked up, in a cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health

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products. Storage must be in accordance with the NZS 8409 Management of Agrichemicals.

Section 8: Exposure controls/personal protection

Occupational exposure limits:

<i>Ingredient</i>	<i>Form of exposure</i>	<i>WES-TWA</i>	<i>WES-STEL</i>
Dimethylamine* (CAS No 124-40-3)	Inhalation	1ppm (18 mg/m ³)	-

* compound used to neutralise MCPA and MCPB acids to form salt. Only trace amount expected to be present.

Biological limit value: Not set.

Engineering controls: Not required if used outdoors with adequate ventilation. Forced ventilation to be used to remove traces of dimethylamine vapours if natural ventilation not sufficient.

Respiratory protection: Not required if used outdoors with adequate ventilation. If risk of inhalation, wear respirator fitted with suitable filter.

Hand protection: Chemical resistant gloves.

Eye protection: Safety goggles.

Skin protection: Overalls, hat 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.

Section 9: Physical and chemical properties

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| (a) | Appearance: | Amber liquid. |
| (b) | Odour: | Slight ammonia odour. |
| (c) | Odour threshold: | No data. |
| (d) | pH: | 9.0. |
| (e) | Melting point/freezing point: | -5°C |
| (f) | Initial boiling point and boiling range: | >100°C (water) |
| (g) | Flash point: | Not flammable. |
| (h) | Flammability (solid, gas): | Not applicable. |
| (i) | Upper/lower flammability or explosive limits: | Not applicable. |
| (j) | Vapour pressure: | No data. |
| (k) | Vapour density: | No data. |
| (l) | Relative density: | 1.086 |
| (m) | Solubility: | Soluble in water. |

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(n)	Partition coefficient: n-octanol/water:	No data.
(o)	Auto-ignition temperature:	Not applicable.
(p)	Decomposition temperature:	No data.
(q)	Kinematic viscosity:	No data.
Section 10: Stability and reactivity		
Stability of the substance:		Stable under normal conditions of storage and use.
Conditions to avoid:		No information available.
Incompatible materials:		Reaction of the concentrate or spray mix with acids will precipitate solid MCPA and MCPB and largely deactivate the product and cause blockages in the spray equipment.
Hazardous decomposition products:		May react violently with strong oxidizing material such as chlorine. If strong alkali such as caustic soda, are added, dimethylamine vapor will be released.
Section 11: Toxicological information		
		Toxicity classifications determined by assessment of the components in the formulated mixture.
(i)	Acute toxicity:	Classified as acutely toxic.
(ii)	Aspiration hazard:	Not classified as aspirant hazard.
(iii)	Respiratory irritation:	Not classified as respiratory irritant.
(iv)	Skin corrosion / irritation:	Not classified.
(v)	Serious eye damage / irritation:	Corrosive. May cause serious damage to the eyes.
(vi)	Respiratory or skin sensitisation:	Sensitising to the skin.
(vii)	Germ cell mutagenicity:	Not classified as mutagenic.
(viii)	Carcinogenicity:	Not classified as carcinogenic.
(ix)	Reproductive toxicity:	Suspected of damaging fertility or the unborn child.
(x)	Specific organ toxicity:	May cause damage to the liver through prolonged or repeated exposure. Symptoms of over exposure may also include headache. Nausea and vomiting.
(xi)	Narcotic effects:	Not classified.
Toxicological information for MCPA and MCPB:		<p>MCPA For acid, Oral LD₅₀ (mouse): 439 mg/kg bodyweight Oral LD₅₀ (rat): 962 mg/kg bodyweight Dermal LD₅₀ (rat): >4000mg/kg bodyweight</p> <p>MCPB Oral LD₅₀ (male rat): 4700 mg/kg bodyweight</p>

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Dermal LD ₅₀ (rat): >2000mg/kg bodyweight Inhalation LC ₅₀ (rat) 4hr: >1.14mg/L	
Section 12: Ecological information	
Ecotoxicological classifications determined by assessment of the components in the formulated mixture.	
(a) Aquatic toxicity:	Toxic to aquatic life with long lasting effects.
(b) Soil environment:	Very toxic to the soil environment.
(c) Terrestrial vertebrate toxicity:	Harmful to terrestrial vertebrates.
(d) Terrestrial invertebrate toxicity:	Not classified.
(e) Persistence and degradability:	Non persistent and biodegradable. DT ₅₀ : <30 days.
(f) Potential to be bioaccumulative:	Not bioaccumulative.
(g) Mobility in soil:	Mobile.
Ecotoxicological information for MCPA and MCPB:	<p>MCPA acid: Rainbow trout LC₅₀ (96hr): 91 mg/L <i>Navicula pelliculosa</i> (alga) EC₅₀ (72 hr) 0.21 mg/L <i>Allium cepa</i> (common onion) EC₅₀ growth (5 days) 0.5 ppm <i>Colinus virginianus</i> (avian) LD₅₀ 377 mg/kg bodyweight</p> <p>MCPB: Rainbow trout LC₅₀: 75 mg/L (48hr) Fathead minnow LC₅₀: 11 mg/L (48hr)</p>
Section 13: Disposal considerations	
Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill.
Container disposal:	Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.
Section 14: Transport information	
UN number:	3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (MCPA 2.5%; MCPB 37.5%)
UN class:	9
Packing group:	III
Subsidiary risk:	-
Environmental hazards:	Marine Pollutant
Special precautions:	-

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This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2012 Transport of Dangerous Goods on Land for more information.

Section 15: Regulatory information

HSNO:	Approved substance under the HSNO Act 1996.
HSNO approval number:	HSR000379; Soluble concentrate containing 25 g/litre MCPA and 375 g/litre MCPB as the dimethylamine salts
Tolerable exposure limit / environmental exposure limit:	Not set.
HSNO controls:	See www.epa.govt.nz
Additional controls:	This substance must not be applied onto or into water.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	P009346
Conditions of registration:	See www.foodsafety.govt.nz

Section 16: Other information

Date of issue:	31/03/2020
Reason for reissue:	Updated regulations.
Replaces:	SDS issued January 2017.
Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.