


Groundforce™

Section 1: Identification

Product name:	Groundforce™
Other names:	Prometryn 500 SC
Recommended use:	Selective herbicide for control of weeds in some vegetable crops.
Manufacturer/Importer details:	PGG Wrightson Limited 1 Robin Mann Place Christchurch Airport Christchurch New Zealand Phone: 03 372 0800 or 0800 102276
24 hour emergency contact:	0800 CHEMCALL (0800 243 622)
National Poisons 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:	HSR101114
Hazardous classification:	6.1E (oral), 6.9B, 9.1A, 9.2A, 9.3C
	
Signal word:	WARNING
Hazard statements:	H303 May be harmful if swallowed. 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 the soil environment. H432 Toxic to terrestrial vertebrates.
Prevention statements:	P102 Keep out of reach of children. P103 Read label before use. P260 Do not breathe mist/vapours/spray. P273 Avoid release to the environment.
Response statements:	P101 If medical advice is needed, have product container or label at hand. P312 Call a POISON CENTRE or doctor if you feel unwell. P391 Collect spillage.
Storage statement/s:	Nil
Disposal statement/s:	P501 Dispose of product and containers in accordance with local Regulations. See section 13 for more details.
Additional label Requirements:	Do not apply directly into or onto water (except as allowed for on product label).

Groundforce™

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

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>
Prometryn	7287-19-6	42 – 46 *
Ethylene glycol	107-21-1	1><10
Other ingredients	Trade secret	balance
* label concentration 500 g/L		

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 on 0800 POISON [0800 764 766] or a doctor.
Inhalation:	Remove person to fresh air and keep at rest in a position comfortable for breathing until recovered. Get medical advice if person feels unwell.
Ingestion:	Rinse mouth. Get medical advice if person feels unwell.
Skin contact:	As per prevention and response statements Wash with soap and water. Get medical advice if irritation persists.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice.
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. Not a fire or explosion hazard.
Appropriate extinguishing media:	Foam, water spray, dry powder, carbon dioxide (CO ₂).
Combustion products:	Smoke, oxides of carbon, nitrogen and sulphur and other unidentified compounds. In reducing atmosphere hydrogen cyanide may be evolved.
Special protective equipment and precautions for fire-fighters:	Wear protective equipment including self-contained breathing apparatus (SCBA).
HAZCHEM code:	3Z

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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 occurs.										
Procedure for clean up:	Contain and recover liquid into labelled container for re-use or disposal. Absorb residue or small spills with suitable material, e.g. sand, vermiculite. Dispose of contaminated waste to approved landfill.										
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 in secure, cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human/animal health products. Storage must be in accordance with the latest version of NZS 8409 Management of Agrichemicals.										
Section 8: Exposure controls/personal protection											
Occupational exposure limits:	<table border="1"> <thead> <tr> <th><i>Ingredient</i></th> <th><i>Exposure</i></th> <th><i>Form</i></th> <th><i>Ceiling</i></th> </tr> </thead> <tbody> <tr> <td>Ethylene glycol (CAS No 107-21-1)</td> <td>Inhalation</td> <td>Vapour and mist</td> <td>50 ppm 127mg/m³</td> </tr> </tbody> </table>			<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>Ceiling</i>	Ethylene glycol (CAS No 107-21-1)	Inhalation	Vapour and mist	50 ppm 127mg/m ³
<i>Ingredient</i>	<i>Exposure</i>	<i>Form</i>	<i>Ceiling</i>								
Ethylene glycol (CAS No 107-21-1)	Inhalation	Vapour and mist	50 ppm 127mg/m ³								
Biological limit value:	None set as of WorkSafe's 12 th edition of WES and BEI values, published November 2020.										
Engineering controls:	Use with adequate ventilation, i.e. outdoors.										
Respiratory protection:	Not required if used outdoors with adequate ventilation. If risk of inhalation, wear respirator fitted with suitable filter.										
Hand protection:	Waterproof gloves, e.g. PVC, nitrile.										
Eye protection:	Chemical goggles, safety glasses with side shields or face shield.										
Skin protection:	Chemical resistant coveralls and closed in 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.										
Personal Protection:	Further information on specific types of personal protective gear and related standards is available in Section 16.										

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Section 9: Physical and chemical properties

(a)	Appearance:	Off white liquid suspension
(b)	Odour:	Characteristic, mild
(c)	Odour threshold:	Not available
(d)	pH:	6.0 – 8.0
(e)	Melting point/freezing point:	Not available
(f)	Initial boiling point and boiling range:	Not available
(g)	Flash point:	Not flammable
(h)	Flammability (solid, gas):	Not applicable
(i)	Upper/lower flammability or explosive limits:	Not applicable
(j)	Vapour pressure:	Not available
(k)	Vapour density:	Not available
(l)	Relative density:	1.1 – 1.2
(m)	Solubility:	Suspension in water
(n)	Partition coefficient: n-octanol/water:	Not available
(o)	Auto-ignition temperature:	Not available
(p)	Decomposition temperature:	Not available
(q)	Kinematic viscosity:	Not available

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:	Strong acids, strong bases, strong oxidising agents.
Hazardous decomposition products:	Not known to occur.

Section 11: Toxicological information

	Toxicity classifications determined by assessment of the components in the formulated mixture.	
(i)	Acute toxicity:	Classified as may be harmful if ingested.
(ii)	Aspiration hazard:	Not classified as aspirant hazard.
(iii)	Respiratory irritation:	Not classified. May be mildly irritating.
(iv)	Skin corrosion / irritation:	Not classified. May be mildly irritating.
(v)	Serious eye damage / irritation:	Not classified. May be mildly irritating.

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(vi)	Respiratory or skin sensitisation:	Not classified as a respiratory or contact sensitizer.
(vii)	Germ cell mutagenicity:	Not classified for mutagenic effects.
(viii)	Carcinogenicity:	Not classified for carcinogenic effects.
(ix)	Reproductive toxicity:	Not classified for fertility or developmental effects.
(x)	Specific organ toxicity:	Product contains ethylene glycol that is identified as affecting the renal system (kidneys). High repeated doses of prometryn may affect weight of liver and kidneys.
(xi)	Narcotic effects:	Not classified for narcotic effects.
Toxicological information for active ingredient:		Oral LD ₅₀ (rat): 1802 mg/kg bodyweight
Section 12: Ecological information		
		Ecotoxicological classifications determined by assessment of the components in the formulated mixture.
(a)	Aquatic toxicity:	Very 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:	Prometryn does not degrade rapidly in soil. More persistent under dry or cold conditions. Soil DT ₅₀ : >30 days
(f)	Potential to be bioaccumulative:	Not bioaccumulative
(g)	Mobility in soil:	Product forms suspension in water
Ecotoxicological information for MCPA acid		Rainbow trout LC ₅₀ (96h) 2.9 mg/L <i>Navicula pelliculosa</i> (freshwater diatom) EC ₅₀ (72h) 0.001 mg/L <i>Mysidopsis bahia</i> (crustacean) LC ₅₀ (96h) 1.7 mg/L Cabbage (<i>Brassica oleracea</i>) EC ₂₅ (21 d) 0.002922 mg/kg soil <i>Colinus virginianus</i> 20 week feeding study, NOEL 375 ppm
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. (PROMETRYN 50%)

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UN class:	9
Packing group:	III
Subsidiary risk:	-
Environmental hazards:	Marine Pollutant
Special precautions:	-
This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more information.	
Section 15: Regulatory information	
HSNO:	Approved substance under the HSNO Act 1996.
HSNO approval number:	HSR101114
Tolerable exposure limit / environmental exposure limit:	None set
HSNO controls:	See www.epa.govt.nz
Additional controls:	Maximum application rate 2 L/ha (1 kg active/ha). Not to be applied more than once per crop cycle per calendar year. Use ground-based application methods only. Do not apply onto or into water.
ACVM:	Registered under the Agricultural Compounds Veterinary Medicines Act 1997.
ACVM registration number:	P9783
Conditions of registration:	See www.foodsafety.govt.nz
Section 16: Other information	
Date of issue:	03/03/2021
Reason for reissue:	New product
Replaces:	Not applicable
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



Personal Protection
Standards:

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**

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.