



SAFETY DATA SHEET PROTUGAN 500 SC HERBICIDE

Section 1: Identification of the Substance and Supplier

Product name: PROTUGAN HERBICIDE
Chemical name of active Ingredient(s): Isoproturon: 3-(4-isopropylphenyl)-1,1-dimethylurea; 3-p-cumenyl-1,1-dimethylurea
Supplier: ADAMA New Zealand Limited
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O.Box 1799, Nelson New Zealand.
Telephone: +64 3 543 8275 Fax: +64 3 543 8274
Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards Identification

HAZARD CLASSIFICATION: 6.9B, 9.1A, 9.2A, 9.3C

Warning –

Presumed to cause organ damage from repeated oral exposure at high doses.

Avoid skin contact.

ECOTOXICITY

Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

Very toxic to the soil environment. Harmful to terrestrial invertebrates.

APPROVED HANDLER - This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

RECORD KEEPING

Records of use must be kept under certain circumstances – see The New Zealand Standard for the Management of Agrichemicals (NZS 8409) for detail.

Section 3. Composition/Information on Ingredients

Substance/preparation	Preparation		
<u>Information on hazardous ingredients *</u>			
Common name	CAS No.	%	EC Number
Isoproturon	34123-59-6	44-49	251-835-4
Ethylene Glycol	107-21-1	4-5	203-473-3

- **Occupational Exposure Limit(s), if available, are listed in section 8**

Section 4: First-Aid Measures

First-aid measures:

Inhalation:

Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention
If swallowed do NOT induce vomiting. **For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor immediately.**

Ingestion:

Skin contact:

Remove contaminated clothing. Gently wash skin with water and soap for 15 minutes or until chemical is removed.

Eye contact:

Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.



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Section 5: Fire-Fighting Measures

Extinguishing media

Suitable: For small fire: dry chemical powder, water spray carbon dioxide.
For large fire: foam, water fog, water spray

Hazardous decomposition products:

Nitrogen oxide, carbon oxides (CO, CO₂)

Protection of fire-fighters: Self contained breathing apparatus and total protection required in enclosed areas.

Section 6: Accidental Release Measures

Personal precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions: Do not discharge into drains or the environment.

Methods for cleaning up: Collect spills and put into appropriate container. Dispose of this material and its container at hazardous or special waste collection point.

Section 7: Handling and Storage

Handling: Keep out of reach of children. Do not smoke, drink or eat while using.

Storage: Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed, seeds, fertilisers or foodstuffs.
As a Class 9 Substance with Ecotoxicity Classifications storage of Protugan Herbicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations. Store in original, unopened container in a cool, dry place, out of direct sunlight and away from stock feed or foodstuffs.

Section 8: Exposure Controls/Personal Protection

Engineering measures: Ventilation required

Hygiene measures: Wash hands thoroughly after handling. When using do not eat, drink or smoke.
Wash clothing before re-using.

Respiratory system: Respirator protection is not required if good ventilation is maintained.

Skin and body: Wear suitable protective clothing. Chemical resistant boots.

Hands: Chemical resistant gloves.

Eyes: Safety goggles or face shield.

Section 9: Physical and Chemical Properties

Physical state: Liquid
Colour: Whitish
Odour: Faint odour
pH value: 7/8.5
Melting point [°C]: 158 (Isoproturon)
Boiling point[°C]: 100 (water)
Vapour pressure [mPa]: 0.003 @ 20°C (Isoproturon)
Solubility in water: Miscible
Log P Octanol/water 2.5 @ 22°C (Isoproturon)
Flammability: Not flammable
Explosion properties : Not Explosive
Oxidation properties: Not oxidizing



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Section 10: Stability and Reactivity

Stability:	Stable under normal conditions
Materials to avoid:	Oxidizing agents, acids, alkali
Hazardous decomposition products:	Nitrogen oxides, carbon oxides (CO, CO ₂)
Hazardous Polymerization:	Will not occur

Section 11. Toxicological Information

On product	
Rat Oral LD₅₀ [mg/kg]:	>5,000
Rat Dermal LD₅₀ [mg/kg]:	>2,000
Rat Inhalation LC₅₀ [mg/l/4h]:	>4.32
Dermal irritation:	Non irritating (rabbits)
Eye irritation:	Minimal irritant (rabbit).
Sensitization :	Non sensitizer
Carcinogenicity:	Isoproturon EPA: Not classified EU: Carc.Cat.3 IARC: Not classified
Mutagenicity:	Not mutagenic
Reproduction toxicity:	Not considered to be toxic for the reproductive system
Teratogenicity:	Not teratogenic in animal experiments

Section 12: Ecological Information

On product	
96 H-LC50[mg/l]	96.1 - Rainbow trout
48 H-LC50 [mg/l]	112.2 - Daphnia magna
48 H-LC50 [mg/l]	0.08- Algae
LD50	= 4,150 Japanese quail [mg/l]
LD50 [µ/Bee]	Not toxic to bees
Persistence and degradability:	Isoproturon: Soil: Moderately persistent in soil Half life time (t _{1/2}) : 15-40 days
Mobility	Soil: Mobile

Section 13: Disposal Considerations

Methods of disposal:	Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.
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Section 14: Transport Information

UN Number	3082
Proper shipping name	Environmentally hazardous substance, Liquid, N.O.S, (Isoproturon)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	Yes
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National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval: Registered pursuant to the ACVM Act 1997. No P8123
See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR100044
See www.ermanz.govt.nz for approval controls

HSNO Classifications: 6.9B, 9.1A, 9.2A, 9.3C



ECOTOXIC.

APPROVED HANDLER - This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

RECORD KEEPING

Records of use must be kept under certain circumstances – see The New Zealand Standard for the Management of Agrichemicals (NZS 8409) for details.

Section 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.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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HISTORY

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