

# Material Safety Data Sheet



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product name:** PROTON (R) HERBICIDE

**Synonyms:** Crop Care MSDS No. 42385, Proton

**CAS-No.:**

**Molecular Formula:**

**Supplier:** Crop Care Australasia Pty Ltd

**ACN:** 061 362 347

**Street Address:** 77 Tingira Street  
Pinkenba 4008  
Australia

**Telephone:** + 61 7 3867 9100

**Facsimile:** + 61 7 3867 9110

**Emergency telephone number:** 1 800 033 111 (ALL HOURS)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Recommended use:** Herbicide.

**Appearance:** White liquid with mild characteristic odour.

CHEMICAL ENTITY	CAS NO.	PROPORTION
Prometryn	7287-19-6	500 g/l
Dispersants	-	LOW
Propylene glycol 57-55-6	LOW	
Preservative	-	VLOW
Water	7732-18-5	HIGH
		<hr/> 100%

PROPORTION (% weight per weight):

VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 3. HAZARDS IDENTIFICATION

Not classified as hazardous according to criteria of Worksafe Australia.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

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**Poisons Schedule (Aust)/Toxic Substance (NZ):** S5

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

## 4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons.

**Ingestion:** Rinse mouth with water. Give plenty of water to drink. If more than 15 minutes from a hospital induce vomiting using fingers in the throat or Ipecac Syrup APF. Seek immediate medical assistance.

**Eye contact:** Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Skin contact:** Wash contaminated skin with plenty of soap and water. If irritation occurs seek medical advice.

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Seek medical advice if effects persist.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Non combustible material.

**Fire fighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On decomposition may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of decomposition.

**Suitable extinguishing media:** Water jets, water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain using sand or soil - prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labelled containers for disposal. If contamination of crops or waterways has occurred advise emergency services or State Department of Agriculture.

## 7. HANDLING AND STORAGE

**Storage:** Store in a cool, dry, well ventilated place. Do not store for prolonged periods in direct sunlight. Store away from acids, alkalis and foodstuffs.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

**Engineering measures:** Use in well ventilated area. Avoid generating and inhaling spray mists. Keep containers closed when not in use.

**Personal protection equipment:** Orica Personal Protection Guide No.1, 1998: - Not in use

Avoid eye contact and repeated or prolonged skin contact and inhalation of spray mist. Wear overalls, safety glasses and impervious gloves. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** White liquid with mild characteristic odour.

**Solubility:** Dispersible in water.

Specific Gravity (20 C)	: 1.075	Melting Point (C)	: N Av
Rel Vapour Density (air=1)	: N Av	Boiling Point (C)	: N Av
Vapour Pressure (20 C)	: N Av	Decomp. Point (C)	: N Av
Flash Point (C)	: N Av	Sublimation Point	: N App
Flammability Limits (%)	: N Av	pH	: N Av
Autoignition Temp (C)	: N Av	Viscosity	: N Av
% Volatile by volume	: N Av	Evaporation Rate	: N Av
Solubility in water (g/L)	: N Av	(n-Butyl acetate=1)	
(Typical values only - consult specification sheet)			
N Av	= Not available	N App	= Not applicable

## 10. STABILITY AND REACTIVITY

**Stability:** Can hydrolyse in warm acids and alkalis.

## 11. TOXICOLOGICAL INFORMATION

**Main symptoms:** No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

**Ingestion:** No adverse effects expected, however large amounts may cause nausea and vomiting.

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**Eye contact:** A mild eye irritant.

**Skin contact:** Contact with skin may result in irritation.

**Inhalation:** Inhalation of spray mist may result in respiratory irritation.

**Long Term Effects:** The active constituent prometryn has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic, or reproductive effects was obtained.(1)

## Acute toxicity / Chronic toxicity

No LD50 data available for product however, for prometryn (1):

Oral LD50(rat): 4550 - 4235 mg/kg

Inhalation LC50(rat): 5170 mg/m<sup>3</sup>, 4 hours.

EYES: Slight irritant (rabbit)

A two year feeding study with rats resulted in a NOEL (no observed effect level) of 83mg/kg body weight/day.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

No environmental impact data found for this material, however for

Prometryn (1):

ENVIRONMENTAL FATE:

Decomposed in soil by microbial degradation. DT50 in soil 40-70 days.

ECOTOXICITY:

Toxic to aquatic organisms.

96 hr LC50 (Rainbow trout): 2.5 mg/L

48 hr EC50 (Daphnia): 12.66 mg/L

Low toxicity to waterfowl.

5-78 day dietary LC50 (Bobwhite quail): 16140 mg/kg

5-7 day dietary LC50 (mallard duck): 38736 mg/kg

## 13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Empty containers must be decontaminated and destroyed.

## 14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

## 15. REGULATORY INFORMATION

Not classified as hazardous according to criteria of Worksafe Australia.

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## 16. OTHER INFORMATION

### Literary reference

(1) Safety Data Sheet - Prometryn technical; CDS 43537;  
ICI Australia Operations Pty Ltd; 08/95  
This Material Safety Data Sheet has been prepared by SHE Pacific Pty Ltd  
on behalf of Orica Ltd and its subsidiary companies.  
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Issue Date: 02/MAY/96/JF Supersedes Issue Date: 06/90  
Reason(s) For Issue: Three yearly update.  
Safety Data Sheets are updated frequently. Please ensure that you have  
a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Orica Limited and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

***Acknowledgments:***

Collated by HerbiGuide. Phone 08 98444064 for more information.