

Prometryne

Date of Issue: 19 December 2005

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Prometryne

Recommended use: Herbicide

Supplier: Elliott Technologies Limited
45 Kitchener Road
Pukekohe
Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: Toxic - 6.1E, 6.9B,
Ecotoxic - 9.1A, 9.2A
Approved Handler Applies

Required identification Details: ECOTOXIC

Very toxic to aquatic organisms
Very toxic to the soil environment
Very toxic to some plant species – selective herbicide.

HARMFUL – may be harmful if swallowed, inhaled or absorbed through the skin.

Presumed to cause damage to the liver, kidneys and bone marrow through repeated oral exposure at high doses.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Prometryne	7287-19-6	50

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

Exposure to Prometryne may cause irritation of skin, eyes, nose or throat. Over-exposure effects may include nausea, vomiting, dizziness, headache, drowsiness, dermatitis. Based on a test with guinea pigs, this product is not a

skin sensitizer.

Target organs for prometryne are the liver, kidneys and bone marrow. Target organs for the other components are the blood, kidneys, central nervous system, skin and eyes.

Inhalation:	Remove to fresh air. Apply artificial respiration if necessary.
Ingestion:	Repeatedly administer medicinal charcoal in large amounts of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a doctor or poison centre immediately.
Skin contact:	Wash with soap and water, including hair and under fingernails. Remove contaminated clothing and wash before re-use.
Eye contact:	Immediately rinse eyes with a large amount of running water, rinsing entire surface of eyes and eyelids. Contact physician or poison information centre immediately.
Notes to a physician:	Treat symptomatically. There is no specific antidote. If a large amount has been ingested and emesis has been inadequate, lavage stomach. Give a suitable saline laxative and supportive therapy.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	2Z
Extinguishing media :	Water,fog,foam,dry chemical,CO2
Hazardous thermal (de)composition products:	May include carbon monoxide, hydrogen cyanide, acetonitrile, oxides of nitrogen and sulphur.
Protection of fire-fighters:	Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear appropriate protective clothing. Avoid contact with skin, eyes, and do not breathe mist or spray. Keep out of reach of children and animals. Do not allow eating drinking or smoking in areas where there is a possibility of exposure to this material. Always wash thoroughly after handling. Clean protective equipment.
Environmental precautions:	As this product is a herbicide, it should not be allowed to contact any vegetation other than that for which it is intended.
Methods for cleaning up:	Prevent further release, and prevent spill from spreading. For small spills, cover the spill with an absorbent material such as pet litter or sawdust. Sweep up the material and place in a resealable container. Wash the spill area with water containing a strong detergent,

absorb with pet litter or other absorbent material. Sweep up and place in the chemical container. Seal container, label and handle in an approved manner. Flush the spill area with water to remove any residue. Do not allow wash to contaminate water supplies. Check local spill reporting regulations.

7. HANDLING AND STORAGE

Handling: Wear chemical safety glasses with side shields or goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, a head covering and an approved pesticide respirator.

Storage: Store in original containers, in a well-ventilated, secure area, set aside for herbicides. Do not store seeds, food and beverages or animal feed in the same area. Protect from sun and humidity.

Packaging materials: Refer to Haznote for storage quantities
HDPE Plastic containers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:

TEL: Not established
EEL: Not established

**Exposure Standards outside:
The workplace:** Not established
Not established

Engineering measures

Exposure control measures:

Personal Protective Equipment

Detail specifications for equipment: Suitable for use with pesticides

Respiratory system: Wear an approved respirator.
Skin and body: To avoid skin contact, rubber boots, long-sleeved shirt and long pants, and a head covering.

Hands: Wear rubber gloves
Eyes: Wear chemical safety glasses with side shields or goggles.
General hygiene: Wash face and hands before meals and after work. Wash protective clothing separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State, odour & colour:	White to beige, odourless liquid.
pH:	Neutral
Vapour Pressure:	0.165 mPa (25°C) Active ingredient
Boiling Point:	300°C @ 100 kPa
Melting point:	118 – 120 °C
Solubility:	33mg/L (25°C)
Specific gravity or density:	1.1 @20°C
Flashpoint:	N/A
Octanol/water partition coefficient:	K _{ow} log P= 3.1 (25°C, Active ingredient unionised)
Explosion properties:	Not explosive
Oxidation properties:	Not an oxidiser

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	UV radiation
Materials to avoid:	None specific

Hazardous decomposition Products: In fire may include carbon monoxide, hydrogen cyanide, acetonitrile, oxides of nitrogen and sulphur.

Hazardous polymerization:	Will not occur
Specific Data:	
Hazardous reactions :	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD50 = 5,233 mg/kg (Rat)
Acute toxicity - Dermal :	LD50 > 2,000 mg/kg (Rabbit)
Acute toxicity – Inhalation:	LC50 = 5.2 mg/litre (Rat)
Skin irritation :	Not an irritant
Eye irritation:	Not an irritant
Sensitization :	Not a sensitiser
Chronic toxicity	
Carcinogenicity:	Not a known carcinogen
Mutagenicity:	Not a known mutagen
Reproduction toxicity:	Not a known reproductive toxin
Other information :	May cause damage to the liver, kidneys and bone marrow through oral exposure at high dose rates.

12. ECOLOGICAL INFORMATION

Ecotoxicity

E.E.L	Not established
T.E.L	Not established Very toxic to aquatic organisms
Fish	LC50 = 8.0 mg/litre,96 hr (Bluegill sunfish) 5.5mg/litre,96hr (Rainbow trout)
Daphnia magna	EC 50 = 12.66 mg/litre 48hr (Daphnia magna)
Algae	EC 50 = 0.023 mg/litre,72hr (Algae)
Bees	Non toxic to terrestrial invertebrates. LD 50 > 130µg/bee.
Persistence/degradability Soil	Moderately persistent in soil half life = 14-58 days.Degradation primarily by hydrolysis.Koc = 400ml/g.
Earthworms	Very toxic to earthworms.
Bioaccumulative potential	Low bioaccumulation potential BCF < 100
Birds	Non toxic to birds LD50 > 2,000 mg/kg (Chicken and pigeon)

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Dispose of product containers, waste containers, and unwanted product according to local environmental regulations. Consult provincial environment ministry for advice on waste disposal. Waste shipments must be securely packed, labelled and documented. Do not re-use product containers.
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14. TRANSPORT INFORMATION - International transport regulations

UN number:	3082
Class or Division:	9
Sub Class:	
Packing Group:	III
Marine Pollutant:	No
Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Contains 50% prometryne)

Other Information:

15. REGULATORY INFORMATION

ACVM Registered Number:	P5654
HSNO Approval Code:	HSR000558

16. OTHER INFORMATION

Additional information:	Original Issue Date: 19 December 2005 Revision Date: N/A Replaces: N/A
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