

SAFETY DATA SHEET

PROTUGAN

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

Product name : PROTUGAN
Chemical name of active ingredient(s) : 3-(4-Isopropylphenyl)-1,1-dimethylurea.
Manufacturer : Agan Chemical Manufacturers Ltd.
 Northern Industrial Zone,
 P.O.Box 262, Ashdod, Israel.
Supplier : Makhteshim-Agan (UK) Ltd.
 Unit 16, Thatcham Business Village
 Colthrop Way, Thatcham
 Berkshire RG19 9LW, U.K.
Emergency telephone number : National Chemical Emergency Centre, Tel:01865 407333.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Information on hazardous ingredients *

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Isoproturon	34123-59-6	44 - 49	251-835-4	Xn	R22-40

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

3. HAZARDS IDENTIFICATION

Most important hazards : Possible risks of irreversible effects. Toxic to aquatic organisms.

4. FIRST-AID MEASURES

Effects and symptoms

Eye contact : May be irritating to eyes.

First-aid measures

First-aid measures : Remove victim from area of exposure. Wash off remaining material with plenty of water.

Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.

Ingestion : Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.

Skin contact : Remove contaminated clothing. Wash away remainder with water and soap.

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

Notes to a physician : There is no specific antidote. Treat symptomatically and give supportive therapy.

Protection of first-aiders : Use appropriate protection (see section 8).

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5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Dry chemical, water spray, foam, carbon dioxide.
- Hazardous thermal (de)composition products** : nitrogen oxides
- Protection of fire-fighters** : Self-contained breathing apparatus and total protection required in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear suitable protective clothing.
- Environmental precautions** : Do not discharge into drains or the environment.
- Methods for cleaning up** : Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

7. HANDLING AND STORAGE

- Handling** : Ventilation required.
- Storage** : Keep only in the original container. Keep in a cool, dry, well ventilated place away from direct sunlight.
- Packaging materials**
- Suitable** : High density polyethylene extrusion blow containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Ventilation required.
- Hygiene measures** : When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
- Occupational Exposure Limits**
- Common name** : **OEL (United Kingdom)**
Isoproturon : Not established
- Personal protective equipment**
- Respiratory system** : Respiratory 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : Whitish
- Odour** : Faint odour

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Boiling point	: 100°C (Water)
Density	: 1.080 ± 0.020 g/mL @ 20°C
Vapour pressure	: 0.003 mPa (Isoproturon)
Solubility in water	: 55 ppm (Isoproturon)
Octanol/water partition coefficient	: log = 2.69 (Isoproturon)
pH	: 7 - 8.5 CIPAC, MT 75.2
Flammability	: Not flammable
Explosion properties	: Not explosive
Oxidation properties	: Not oxidizing

10. STABILITY AND REACTIVITY

Stability	: Not subject to polymerization.
Materials to avoid	: Oxidizing agents, acids and alkali.
Hazardous reactions	: None
Hazardous decomposition products	: nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Preparation

Acute toxicity - Oral	: LD ₅₀ (rat) > 5,000 mg/kg
Acute toxicity - Dermal	: LD ₅₀ (rabbit) > 2,000 mg/kg
Acute toxicity - Inhalation	: LC ₅₀ (rat) > 2.16 mg/L (4 hours)
Skin irritation	: Not irritating (rabbit).
Eye irritation	: Minimal irritant (rabbit).
Sensitization	: The product is not a skinsensitizer (guinea-pig).

<u>Common name</u>	: Isoproturon
Chronic toxicity	: NOEL (rat): 80 ppm.
Carcinogenicity	: EPA : Not classified EU : Not classified IARC : Not classified
Mutagenicity	: Not mutagenic.
Reproduction toxicity	: NOEL (rat): 100 ppm (2-generation).
Other information	: Teratogenicity - NOEL (rat): 20 mg/kg/day

12. ECOLOGICAL INFORMATION

Preparation

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Inland waterways

Proper shipping name : Environmentally hazardous substance, Liquid, N.O.S., Isoproturon.

ADNR Class : 9, 11(c), Label 9

Sea : Not classified.

Air : Not classified.

National transport regulations

United Kingdom : No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : United Kingdom - Not classified.

Safety phrases : S02: Keep out of the reach of children.

S07: Keep container tightly closed.

S13: Keep away from food, drink and animal feedingstuffs.

S20/21: When using do not eat, drink or smoke.

S23D: Do not breathe spray.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S49: Keep only in the original container.

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

United Kingdom : No additional national regulations are known to the supplier

16. OTHER INFORMATION

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.

HISTORY

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