

# Material Safety Data Sheet

## 1. Identification of the substance/preparation and company/undertaking

### Product

Trade Name: PRIMER

Recommended Uses: Agricultural Herbicide

### Company

Manufacturer / Supplier: Agriguard Ltd  
Address: Unit 3, Block B, Tally House, Broomfield Business Park  
Malahide  
Co. Dublin  
Ireland  
Telephone Number: +353-1-8462044  
Fax Number: +353-1-8462489  
e-mail: info@agriguard.ie  
Emergency Telephone No.: 0870-600-6266 [UK National Poisons Control  
Information Service (NPIS) Centre]  
01-8379964/66 (Poisons Information Centre, Beaumont  
Hospital, Beaumont, Dublin 9, Ireland)

## 2. Composition/Information on Ingredients

Component	CAS Registry No.	EINECS ELINCS No.	Conc. %w/w	R phrase*	Symbol
Isoproturon <sup>1</sup> 3-(4-isopropylphenyl)-1,1-dimethylurea (IUPAC)	34123-59-6	251-835-4	47.0	R22, R40, R50/53	Xn N
Ethylene glycol Ethane 1,2-diol (IUPAC)	107-21-1	203-473-3	≤5.0	R22	Xn

<sup>1</sup> Classification: Carcinogenic Category 3

\*Reference section 16

## 3. Hazards Identification

### Risk advice to man and the environment.

Limited evidence of a carcinogenic effect.

Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

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## 4. First Aid Measures

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- Skin Contact:** Remove contaminated clothing and wash the affected area with soap and water. Seek medical attention if necessary.
- Eye Contact:** Rinse out with plenty of water with the eyelid held wide open and seek medical attention.
- Inhalation:** Immediately remove from exposure to fresh air and seek medical attention if necessary.
- Ingestion:** Rinse mouth out with water and do not induce vomiting. Keep patient at rest and seek medical attention immediately.
- Further Information:** Systemic poisoning leading to a potential for cyanosis with headaches and dizziness due to Methaemoglobineamia following large exposures or ingestion of large amounts (> one mouthful). Initial treatments should be symptomatic and supportive. Carry out gastric lavage and charcoal administration with monitoring of cardiac and kidney functions and red blood cells. Also observe E.C.G, Methaemoglobineamia and Serium Potassium levels. Methylene blue/Toluidine blue may be used as an antidote. Contraindications: alcohol  
Recovery is expected to be spontaneous.

For further advice on treatment contact The UK National Poisons Control Information Service (NPIS) Centre (Emergency Telephone No.: 0870-600-6266) or The Poisons Information Centre, Beaumont Hospital, Beaumont, Dublin 9, Ireland (Telephone 01-8379964/66).

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## 5. Fire-fighting Measures

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**Suitable extinguishing media:** Water spray, foam, carbon dioxide, dry powder or sand.

**Extinguishing media which must not be used for safety reasons:**

High pressure water jet

**Special protective equipment for fire-fighting:**

Wear self contained breathing apparatus and protective clothing (chemical protection suit, boots and plastic or rubber gloves)

**Special exposure hazards:**

No information.

**Other Information:**

Intact containers should be removed from risk of exposure to the fire if it is safe to do so. If it is not safe to remove them, spray intact containers with water to keep them cool. Contain fire-fighting water with sand or some such bunding material.

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## 6. Accidental Release Measures

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**Personal precautionary measures:**

Avoid contact with the substance however if contact has occurred see section 4 above. Refer to section 8 below for personal protection required.

**Environmental-protection measures:**

Keep the area isolated and do not allow contamination to enter the sewerage system. If the product has entered the sewerage system or contaminated a public place advise the appropriate authority.

**Procedures for cleaning/absorption:**

Contain/absorb the spillage with a suitable inert absorbent material which should then be transferred to secure containers and sent for disposal.

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## 7. Handling and Storage

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**Handling:** Keep product in original tightly closed container; do not get on skin, eyes or clothing; do not eat drink or smoke when handling; wash hands before eating drinking or smoking.

**Storage:** Store in a dry area in the original containers, access should only be for authorised persons. Store away from animal foodstuffs, seeds and fertilisers. Protect from frost.

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## 8. Exposure Controls/Personal Protection

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**Occupational exposure limits:**

No data is available for the active.

Ethane diol - 52mg/m<sup>3</sup>

**Engineering measures to reduce exposure:**

Ensure adequate ventilation especially in confined areas.

**Personal protective equipment:**

Respiratory protection: Respirator with model ABEK filter (according to DIN 3181, 1980).

Eye protection: Wear safety goggles conforming to BS 2092.

Hand protection: Wear PVC or nitrile gloves.

Other protection: Wear PVC or chemical resistant disposable overalls and PVC boots.

**Industrial Hygiene:**

Immediately change contaminated clothing, dispose of if decontamination is not feasible. Keep away from food, drink and animal feedstuffs. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

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## 9. Physical and Chemical Properties

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<b>Appearance:</b>	Liquid
<b>Colour:</b>	Off-white
<b>Odour:</b>	Characteristic
<b>pH:</b>	7.8
<b>Melting Point/Melting point range:</b>	Not determined
<b>Boiling Point/Boiling Point range:</b>	>100°C
<b>Flash Point:</b>	>100°C
<b>Flammability</b>	Non flammable
<b>Autoflammability</b>	Not applicable
<b>Vapour Pressure:</b>	$8.1 \times 10^{-6}$ at 25°C
<b>Relative density:</b>	1.1 g/ml @ 20°C
<b>Solubility</b>	
<b>Water solubility</b>	Dispersible
<b>Fat solubility</b>	Not available
<b>Partition coefficient n-octanol/water</b>	Log POW = 2.5 at 20°C (Active material)

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## 10. Stability and Reactivity

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<b>Stability:</b>	Stable at ambient conditions.
<b>Conditions to avoid:</b>	Protect from frost.
<b>Materials to avoid:</b>	None under normal conditions of use.
<b>Hazardous decomposition products:</b>	Carbon oxides, nitrogen oxides. If heated to decomposition, fumes released may be toxic.

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## 11. Toxicological Information

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### Acute toxicity:

LD<sub>50</sub>(oral, rat): >2,000mg/kg  
LD<sub>50</sub>(skin, rat): >4,000mg/kg  
LD<sub>50</sub> (inhalation exposure time 4h): >1.34mg/L

**Local effects:** No eye irritation  
No skin irritation

**Sensitisation:** Does not cause sensitisation on laboratory animals.

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## 12. Ecological Information

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### Aquatic toxicity : (data is for active ingredient)

Fish LC<sub>50</sub>(96hr): 309-556mg/l  
Daphnia EC<sub>50</sub>(24hr): 1000mg/l  
Algae EC<sub>50</sub>(72hr): 0.1mg/l

### Toxicity to birds:

Non toxic for birds

### Other toxicity : (data is for active ingredient)

Quail oral LD<sub>50</sub>: 3042 – 3982mg/kg  
Low toxicity to honey and earthworms

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## 13. Disposal Considerations

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**Waste from residues/unused products:**

In accordance with local and national regulations. Do not allow material to contaminate ground water system. Do not contaminate surface water.

**Contaminated packaging:**

Wash out container thoroughly, empty washings into spray tank and dispose of safely. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not re-use empty containers.

**Further information:**

Dispose of product concentrate, diluted product and empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO. Do not re-use container for any purpose. Contact the Local Council Authority for advice on the disposal of pesticide waste, or ask an approved waste disposal contractor. Waste key number: 02 01 08 (agrochemical waste containing dangerous substances)

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## 14. Transport Information

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**UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s (contains isoproturon)

**UN Number** 3082

**Road/Railway**

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s (contains isoproturon)

**UN Number** 3082

**Class:** 9

**Packaging group:** III

**Hazard Identification No.:** 90

**Inland waterways**

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s (contains isoproturon)

**UN Number** 3082

**Class:** 9

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**Item:** 11  
**Letter:** c  
**Hazard Identification No.:** 90

## Sea

**Proper shipping name:** Environmentally hazardous substance, liquid,  
n.o.s (contains isoproturon)  
**UN Number** 3082  
**Class:** 9  
**Packaging group:** III  
**Marine pollutant:** P

## Air

**Proper shipping name:** Environmentally hazardous substance, liquid,  
n.o.s (contains isoproturon)  
**UN Number** 3082  
**Class:** 9  
**Packaging group:** III

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## 15. Regulatory Information

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Classification in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3.

**Hazardous components which must be listed on the label:**

Isoproturon

**Symbol(s):** Xn Harmful  
N Dangerous for the environment

**R phrases:**

R40 Limited evidence of a carcinogenic effect  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**S phrases:**

S35 This material and its container must be disposed of in a safe way  
S36/37 Wear suitable protective clothing and gloves

**Designated name:** PRIMER (contains isoproturon 500g/l)

This product is covered by the Control of Pesticides Regulations, 1986, and is labelled accordingly (MAPP 11782).

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## 16. Other Information

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### Health and Environmental Hazards

Text of R phrases mentioned in Section 2

**R phrases:** R22 Harmful if swallowed  
R40 Limited evidence of a carcinogenic effect  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Recommended Uses:** Agricultural Herbicide

**Recommended Restrictions:** Refer to statutory conditions on approved product label

### Further information:

**Date of First Issue:** 8<sup>th</sup> August 2003

**First Revision Date:** 29<sup>th</sup> September 2003

**Second Revision Date:** 1<sup>st</sup> August 2006

**Disclaimer:** The information contained in this MSDS is designed to give general health and safety guidance on the storage and transport of the substance/preparation to which it relates. Requirements arising from a Risk Assessment of the substance/preparation in a particular working environment should take precedence over any of the guidance contained in this MSDS where there is a difference in the information given. The information contained in this MSDS is accurate at the date of publication and will be updated as and when appropriate. Liability will not be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this MSDS.

Compiled in accordance with EC Directive 91/155/EEC and subsequent amendments EC Directives 93/112/EEC and 2001/58/EC.