



Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

MATERIAL SAFETY DATA SHEET

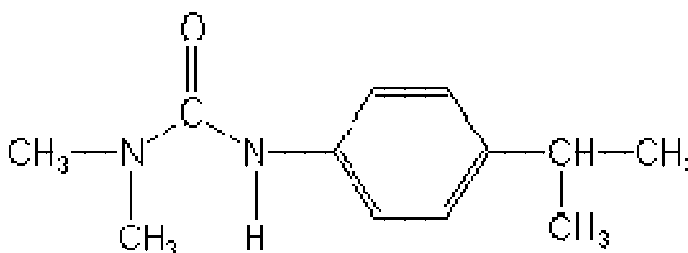
1. Chemical Product and Company Identification

Product Name: Isoproturon

Molecular Formula: C₁₂H₁₈N₂O

Molecular Weight: 206.30

Structural Formula:



Chemical Name: N,N-dimethyl-N'-[4-(1-methylethyl)phenyl]urea

CAS No.: 34123-59-6

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

Address: Room 1906, Fengqi Times Tower, No.338 Fengqi East Road, Hangzhou, China, 310020

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2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Isoproturon	34123-59-6	95.0
Other ingredients		5.0

3. Hazards Identification

May cause irritation to skin. May cause skin sensitisation.

4. First Aid Measures

Eye Contact: Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention.

Skin Contact: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.

Inhalation: If inhaled, move the victim to fresh air immediately. Begin artificial

respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Notes to doctor: If swallowed, rinse mouth with water immediately. Do not induce vomiting. Seek medical attention. Ingestion: Remove by gastric lavage. Treat Symptomatically.

5. Fire-Fighting Measures

Extinguishing Media: Dry chemical, water spray (fog), foam or carbon dioxide.

Thermal Decomposition Products: Oxides of carbon and nitrogen and volatile isoproturon.

Special Fire Fighting Methods: Vapours may be toxic. Self contained breathing apparatus and chemical suit required. Do not allow contaminated run-off to enter drains.

Unusual Fire Or Explosion Hazards: An aqueous suspension not usually flammable - avoid inhalation of steam volatile vapours.

6. Accidental Release Measures

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately.

Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains. Warning this substance is very toxic to aquatic organisms. Avoid contamination of any water supply with this substance or empty container.

7. Handling and Storage

Keep product in original tightly closed container. Store in a well ventilated place in properly labelled containers away from food and animal feed. Keep from extreme heat and open flames.

8. Exposure Controls/Personal Protection

Eye Protection: Chemical goggles or face shield where splash may occur.

Respiratory Protection: Not normally required. Exceptions: in the case of fire or during the formation of mists or aerosols. Wear impervious outer clothing - Vinyl apron, gloves and gumboots.

Ventilation: General (mechanical) room ventilation is considered satisfactory.

Hygiene Precautions: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

9. Physical and Chemical Properties

Appearance: White crystal

PH as supplied 6.8 (1% aqueous dispersion)

Boiling point / range Not applicable.

Melting point / range 153-156°C

Relative density : 1.20@20°C

Vapor pressure : 0.00315mPa@20°C.

Flash point Not applicable.

Flammability Not flammable.

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures.

Conditions to avoid: No special precautions other than good housekeeping of chemicals. Material to avoid Strong oxidisers.

Hazardous decomposition: Thermal decomposition products may include toxic oxides of carbon and nitrogen.

11. Toxicological Information

Acute LD₅₀ oral rats > 2000 mg/kg.

Acute LD₅₀ dermal rats > 2000 mg/kg.

Acute LC₅₀ inhalation rats (4 h) Dust free product, no hazard by the inhalation route.

Eye irritation: Non-irritant.

Skin irritation: Non-irritant.

Skin sensitization: Not determined.

Carcinogen status: The EU has isoproturon on its list of carcinogenic substances as a class 3 compound.

12. Ecological Information

Aquatic Toxicity: Very toxic to fish. LC₅₀ (96 hr) for Rainbow trout: 64.4 mg/L.

Soil Toxicity: Very toxic to worms. Soil DT50 6 to 20 days.

Terrestrial Vertebrates - Birds: Not toxic to birds.

Terrestrial Invertebrates - Bees: Not toxic to bees.

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

13. Disposal Considerations

Pesticide disposal: Controlled incineration or burial in a specially designated landfill without contaminating water sources. Always dispose of in accordance with local regulations.

Container disposal: Packaging should be disposed of as the product. Always dispose of in accordance with local regulations.

14. Transport Information

Class: 9

Packing group: III

UN NO.: 3077

15. Regulatory Information

Risk 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.

Safety phrases:

S36/37: Wear suitable protective clothing and gloves.

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.