



Hangzhou Tianlong Biotechnology Co., Ltd.

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

MATERIAL SAFETY DATA SHEET

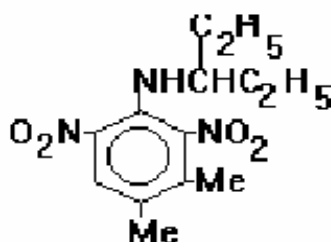
1. Chemical Product and Company Identification

Product Name: Pendimethalin

Molecular Formula: C₁₃H₁₉N₃O₄

Molecular Weight: 281.3

Structural Formula:



Chemical Name: *N*-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine (IUPAC);

CAS No.: 40487-42-1

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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

Tel: 0086-571-87214516

Fax: 0086-571-87079476

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Pendimethalin	40487-42-1	95.0
Other ingredients		5.0

3. Hazards Identification

More important danger for the man: None

Dangers for the environment: Pendimethalin is highly toxic to fish and aquatic invertebrates.

Physical-chemical dangers: nitride and carbon dioxide

4. First Aid Measures

Skin: Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

Eyes: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), and then take to a doctor.

Inhalation: Move affected person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

Ingestion: Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

Notes to physician: No specific antidote if ingested. Treat symptomatically.

5. Fire-Fighting Measures

Extinguishing media: powder, foam, and sand.

Measures of personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

6. Accidental Release Measures

Personal cautions: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Cleaning methods

EX: The empty container may be decontaminated by rinsing two or three times with water and detergent and scrubbing the sides.

Environmental cautions

EX: prevent the contamination of the floor and beds of water.

7. Handling And Storage

Store in a cool, dry place, away from feed and foodstuffs. Avoid contact with mouth, eyes, and skin. Keep out of reach of children

8. Exposure Controls / Personal Protection

Personal protective equipment

Respiratory protection: Approved respirator

Protective gloves: Rubber gloves

Eye protection: Safety goggles or face shield.

Industrial hygiene: adequate ventilation.

9. Physical And Chemical Properties

Appearance: Orange yellow crystal

Melting point: 56-57°C

Density: 1.17;

Water solubility: <0.5mg/l

Other solubility: in organic solvents: soluble in most organic solvents such as acetone (161.0 g/100 ml at 25°C) and xylene. Soluble in corn oil, heptane, benzene, toluene, chloroform, dichloromethane. Moderately soluble in isopropanol. Slightly soluble in petroleum ether and petrol

10. Stability And Reactivity

Conditions to avoid: light.

Products to avoid: compatible with most common pesticides.

Thermal decomposition: decompose at 130°C;

Hazardous decomposition products: nitride and carbon dioxide;

Hazardous reaction: Not applicable

11. Toxicological Information

Contact with the skin: Mildly to moderately irritating

Contact with the eyes: Mildly to moderately irritating.

Inhalation: Inhalation of dusts or fumes may be mildly to moderately irritating to the linings of the mouth, nose, throat, and lungs.

Ingestion: not applicable;

Sensitization: It is not a skin irritant or sensitizer in rabbits or guinea pigs

12. Ecological Information

Aquatic organisms:

LC₅₀ (48 h) for rainbow trout 0.14, bluegill sunfish 0.2, channel catfish 0.42 mg/l.

Bird: acute LD₅₀ for mallard ducks 1421 mg/kg b.w.;

Other Animals (Non-target species)

Bee: LD₅₀ (topical) >101.2 g/bee.

13. Disposal Considerations

Material that cannot be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. If burned, stay out of smoke. Do not contaminate water supplies by disposal of wastes or containers.

14. Transport Information

Class: 9

UN NO.: 3077

Packing group: III

15. Regulatory Information

Xi: Irritant

N: Dangerous for the environment

Risk phrases:

R43: May cause sensitization by skin contact

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S2: Keep out of the reach of children.

S24: Avoid contact with skin.

S29: Do not empty into drains.

S37: Wear suitable 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.