

Maleic Hydrazide -MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

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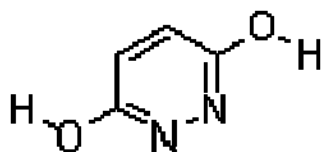
1. Chemical Product Identification

Product Name: Maleic Hydrazide

Molecular Formula: C₄H₄N₂O₂

Molecular Weight: 112.08

Structural Formula:



Chemical Name: 3,6-Dihydropyridazine

Form: Solid

Color: White

Odor: Odorless

CAS No.: 123-33-1

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Maleic Hydrazide	123-33-1	98.0
Other ingredients		2.0

3. Hazards Identification

Emergency Overview

Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5. Fire-Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Avoid generating dusty conditions. Isolate area and deny entry.

7. Handling And Storage

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container.

8. Exposure Controls / Personal Protection

Engineering Controls:Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin:Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Not applicable

9. Physical and Chemical Properties

Vapor Pressure: <0.01mPa@25°C

Partition coefficient : KowP=0.011(pH7)

Melting Point: >292 °C.

Autoignition Temperature: 374°C. (705.20 deg F)

Flash Point: 300°C.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Relative density : 1.60@25°C

Solubility in water: 6 g/l

10. Stability And Reactivity

Chemical Stability:Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. Toxicological Information

Inhalation, rat: LC50 = >20 gm/m³;

Oral,rat: LD50 =3800 mg/kg;

Skin, rabbit: LD50 = >4 gm/kg.

12. Ecological And Ecotoxicological Information

Environmental Fate: No information found.
Environmental Toxicity: No information found.

13. Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

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.