

Printing date 02/28/2006

Reviewed on 02/28/2006

1 Identification of substance:

- **Product name:** 4-Hydroxymidazolam
- **Catalog number:** 451029
- **Manufacturer/Supplier:**
BD Discovery Labware
6 Henshaw Street
Woburn, MA 01801
Tel: 800.334.5229
- **Information department:** Technical Services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Discovery Labware at 800.334.5229, or ChemTrec at 800.424.9300.

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
59468-85-8

3 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**
R 36/37/38 Irritating to eyes, respiratory system and skin.
- **NFPA ratings (scale 0-4)**

Health = 1
Fire = 0
Reactivity = 0**4 First aid measures**

- **After inhalation** Supply fresh air and seek medical advice.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** If swallowed, rinse mouth with water (only if the person is conscious)
- **Information for doctor** Show the product label or this MSDS.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

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· Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Avoid formation of dust.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.
- **Additional information:**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
 - **Requirements to be met by storerooms and receptacles:** -20° C
 - **Information about storage in one common storage facility:** Store away from oxidizing agents.
 - **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal Protective Equipment**
 - **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - **Breathing equipment:**
 - In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
 - **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

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9 Physical and chemical properties:**· General Information**

Form:	Solid.
Color:	Whitish
Odor:	Unknown

· Change in condition**Melting point/Melting range:** 191-193°C (376-379°F)**Boiling point/Boiling range:** Not determined**· Flash point:** Not applicable**· Danger of explosion:** Product does not present an explosion hazard.**· Vapor pressure:** Not applicable**· Density:** Not determined**· Solubility in / Miscibility with****Water:** Insoluble**· pH-value:** Not applicable**10 Stability and reactivity****· Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**· Materials to be avoided:** Incompatible material: strong oxidizers.**· Dangerous reactions** No dangerous reactions known**· Dangerous products of decomposition:**

Chlorine (Cl)

Carbon monoxide (CO) and carbon dioxide (CO₂)

Fluorine (F)

11 Toxicological information**· Acute toxicity:****· Primary irritant effect:****· on the skin:** Irritant to skin and mucous membranes.**· on the eye:** Irritating effect.**· Sensitization:** No sensitizing effects known.**· Additional toxicological information:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 Ecological information:**· Ecotoxicological effects:****· Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

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13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of with solid waste.
Dispose of material in accordance with federal (40 CFR 261), state and local requirements.
This product is not considered a RCRA hazardous waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Proper shipping name:** None
- **Air transport ICAO-TI and IATA-DGR:**
- **Proper shipping name:** None

15 Regulations

- **SARA Section 355 (extremely hazardous substances)** Substance is not listed.
- **SARA Section 313 (specific toxic chemical listings)** Substance is not listed.
- **TSCA (Toxic Substances Control Act)** Substance is not listed.
- **California Proposition 65 - Chemicals known to cause cancer** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **Carcinogenicity categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **Product related hazard information:**
The product has been classified and marked in accordance with regulations on hazardous materials.
- **Hazard symbols:**
Xi Irritant
- **Risk phrases:**
36/37/38 Irritating to eyes, respiratory system and skin.
- **Safety phrases:**
14 Keep away from oxidising agents and acidic substances
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of soap and water
43 In case of fire, use water or powdered extinguishing agent

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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16 Other information:

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Use of Product:

- synthetic chemical for research only
- analytical standard
- must be handled by suitably qualified personnel

- **Department issuing MSDS:** Safety and Environment Department
- **Contact:** Technical Service Representative

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