Eye Exposure
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A
Extinguishing Media
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)
Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Methods for Cleaning Up
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage
Suitable: Keep tightly closed. Store under nitrogen.

Special Requirements
Store under inert gas. Hygroscopic.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eyewash. Mechanical exhaust required.

Personal Protective Equipment
Respiratory
Wear dust mask.
Hand
Protective gloves.
Eye
Chemical safety goggles.
General Hygiene Measures
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Color</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solid</td>
<td>White</td>
<td>Odorless</td>
</tr>
</tbody>
</table>

Molecular Weight: 9,522 AMU

pH: N/A
BP/BP Range: N/A
MP/MP Range: 714 °C
Freezing Point: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Saturated Vapor Conc.: N/A
SG/Density: 232 g/cm³
Bulk Density: N/A
Odor Threshold: N/A
Volatile%: N/A
VOC Content: N/A
Water Content: N/A
Solvent Content: N/A
Evaporation Rate: N/A
Viscosity: N/A
Partition Coefficient: N/A
Decomposition Temp.: N/A
Flash Point °F: N/A
Flash Point °C: N/A
Explosion Limits: N/A
Fammability: N/A
Autoignition Temp.: N/A
Solubility: Soluble in Water: Soluble.

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable.

Reactions to Avoid
When mixed with limited amount of water enough heat may be generated to cause frothing.

Conditions to Avoid
Protect from moisture.

Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Hydrogen chloride gas, Magnesium oxide.

Section 11 - Toxicological Information

Hazardous Polymerisation
Hazardous Polymerization
Will not occur.

Route of Exposure
Skin Contact
May cause skin irritation.

Skin Absorption
May be harmful if absorbed through the skin.

Eye Contact
May cause eye irritation.

Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion
May be harmful if swallowed.

Target Organ(s) or System(s)
Central nervous system, Kidneys, G.I. System.

Signs and Symptoms of Exposure
Can cause CNS depression. Exposure can cause: Stomach pains, vomiting, diarrhea. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: CA0280000

Toxicity Data

Oral - Rat: 2,800 mg/kg (LD50)
Remarks: Behavioral Convulsions or effect on seizure threshold.
Cardiac: Other changes.
Lungs, Thorax, or Respirations: Other changes.

Oral - Mouse: 4,700 mg/kg (LD50)
Intraperitoneal - Mouse: 940 mg/kg (LD50)
Intravenous - Mouse: 14 mg/kg (LD50)
Intramuscular - Mammal: 1 mg/kg (LD50)

Chronic Exposure - Mutagen

Species | Dose | Cell Type | Mutation Test |
---------|------|-----------|--------------|
Human | 20 MMOL/L | fibroblast | DNA damage |
Human | 2 MMOL/L | HeLa cell | Cytogenetic analysis |
Rat | 2500 MMOL/KG | Intraperitoneal | Unscheduled DNA synthesis |
Mouse | 4 MMOL/L | Ascites tumor | Other mutation test systems |

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
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.
Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Safety Statements S: 22 24/25
Do not breathe dust. Avoid contact with skin and eyes.

US Classification and Label Text
US Statements
Caution: Avoid contact and inhalation. Target organ(s): Central nervous system. Kidneys.

United States Regulatory Information
SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CFR, and the MSDS contains all the information required by the DPR.
DCL: Yes
NDSL: No

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.