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

Procedure(s) of Personal Precaution(s)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

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 in a cool dry place.

Special Requirements
Inert gas.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment
Respiratory
Government approved respirator.
Hand
Compatible chemical-resistant gloves.
Eye
Chemical safety goggles.

Aldrich Chemical - 246972
Sigma-Aldrich Corporation
www.sigmaaldrich.com
Section 9 - Physical/Chemical Properties

**Appearance**
- Physical State: Solid
- Form: Powder

**Molecular Weight:** 120.37 AMU

**pH** N/A

**BP/BP Range** N/A

**MP/MP Range** N/A

**Freezing Point** N/A

**Vapor Pressure**< 0.1 mmHg at 20 °C

**Vapor Density** <0.01 g/l

**Saturated Vapor Conc.** N/A

**SG/Density** 1.07 g/cm³

**Bulk Density** N/A

**Odor Threshold** N/A

**Volatility** 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

**Flammability** N/A

** autoignition Temp** N/A

**Solubility** N/A

N/A = not available

Section 10 - Stability and Reactivity

**Stability**
- Stable
- Conditions to Avoid
  - Hygroscopic
- Materials to Avoid
  - Strong oxidizing agents

**Hazardous Decomposition Products**
- Sulfur oxides, Magnesium oxide

Section 11 - Toxicological Information

**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. G.I. System.

**Signs and Symptoms of Exposure**
- Exposure can cause: Diarrhea. Vomiting. Can cause CNS depression. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** OM4600000

**Toxicity Data**
- **Intravenous - Women:** 80 MG/KG (LD50)
  - Remarks: Cardiac,Other changes.
  - Lungs, Thorax, or Respiration/Cyanosis.
- **Intravenous - Woman:** 80 MG/KG (LD50)
  - Remarks: Cardiac,Other changes.
  - Lungs, Thorax, or Respiration/Cyanosis.
- **Subcutaneous - Rat:** 1200 MG/KG (LD50)
- **Subcutaneous - Rat:** 1200 MG/KG (LD50)
- **Intraperitoneal - Mouse:** 1029 MG/KG (LD50)
- **Intraperitoneal - Mouse:** 1029 MG/KG (LD50)
- **Subcutaneous - Mouse:** 645 MG/KG (LD50)
- **Subcutaneous - Mouse:** 645 MG/KG (LD50)

**Chronic Exposure - Teratogen**
- **Species**
  - Rat
  - **Dose:** 750 MG/KG
  - **Route of Application:** Intraperitoneal
  - **Exposure Time:** (17-21D PREG)

**Chronic Exposure - Reproductive Hazard**
- **Species**
  - **Dose:** 320 MG/KG
  - **Route of Application:** Intravenous
  - **Exposure Time:** (59W PREG)
  - **Result:** Maternal Effects: Other effects. Effects on Embryo or Fetus: Other effects to embryo.
- **Species**
  - **Dose:** 320 MG/KG
  - **Route of Application:** Intravenous
  - **Exposure Time:** (59W PREG)
  - **Result:** Maternal Effects: Other effects. Effects on Embryo or Fetus: Other effects to embryo.
- **Species**
  - **Dose:** 9 GM/KG
  - **Route of Application:** Subcutaneous
  - **Exposure Time:** (15-20D PREG)
  - **Result:** Maternal Effects: Other effects.
- **Species**
  - **Dose:** 18 GM/KG
  - **Route of Application:** Subcutaneous
  - **Exposure Time:** (15-20D PREG)
  - **Result:** Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Physical.
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
Cautions: Avoid contact and inhalation. Target organ(s): Central nervous system. G.I. System.

United States Regulatory Information
SARA Listed: No

TSCA Inventory Item: Yes Yes

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: 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. 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 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.