# MATERIAL SAFETY DATA SHEET

## **Section 1 - Product and Company Information**

Product Name: 4.4-Difluoro-but-2-enoic acid

Product Number: 05R0817 Company: J & W PharmLab, LLC Street Address: 3930 Nebraska Ave

City, State, Zip, Country: Levittown, PA 19056, USA

Phone: 1.215.945.6595 Fax: 1.215.945.6597

# Section 2 - Composition/Information on Ingredient

**CAS #**: [37759-73-2] **Formula**: C4H4F2O2

#### Section 3 - Hazards Identification

Emergency Overview: Irritating to eyes and respiratory

system. Lachrymator.

For additional information on toxicity, please refer to

Section 11.



#### **Section 4 - First Aid Measures**

Oral Exposure: If swallowed, wash out mouth with water provided person is

conscious. Call a physician.

**Inhalation Exposure:** If inhaled, remove to fresh air. If not breathing give

artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure: In case of contact, immediately wash skin with soap and

copious amounts of water.

**Eye Exposure:** Assure adequate flushing of the eyes by separating the eyelids

with fingers.

# **Section 5 - Fire Fighting Measures**

Flash Point: N/A

**Autoignition Temperature:** N/A

Flammability: N/A

**Extinguishing Media:** Water spray. Carbon dioxide, dry chemicals 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.

## 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. **General Hygiene Measures:** Wash thoroughly after handling. Wash

contaminated clothing before reuse.

# Section 9 - Physical/Chemical Properties

Appearance Form: White Solid Molecular Weight: 122.07 Melting/Boiling Point: N/A

# Section 10 - Stability and Reactivity

**Stability:** *Materials to avoid:* Acids, Bases, Oxidizing agents Reducing agents. **Hazardous Decomposition Products:** carbon monoxide, carbon dioxide,

hydrogen fluoridegas

# Section 11 - Toxicological Information

**Route of Exposure:** *Multiple Routes:* Harmful if swallowed, inhaled, or absorbed through skin. High concentrations are extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin.

**Signs and Symptoms of Exposure:** Material is destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

# **Section 12 - Ecological Information**

No data available.

## Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation: 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:Not regulated TDG:Not regulated IATA:Not regulated IMDG/IMO:Not regulated

#### **Section 15 - Regulatory Information**

Not available

## **Section 16 - Other Information**

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