

# Seaforth Mineral & Ore Co., Inc.

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## FLUORSPAR Material Safety Data Sheet

### SECTION I – CHEMICAL PRODUCT

**Product Name:** Fluorspar  
**Chemical Name/Synonyms:** Calcium Fluoride  
**Chemical Formula:** CaF<sub>2</sub>  
**CAS Registry Number:** #7789-75-5

**NFPA Classification:**

|              |   |
|--------------|---|
| Health       | 0 |
| Flammability | 0 |
| Reactivity   | 0 |

### SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

**Hazardous Components:** Fluorspar or Calcium Fluoride  
**OSHA Permissible Exposure Limit (PEL):** 15mg. per cubic feet  
**ACGIH Threshold Limit Value (TLV):** 2.5mg/m<sup>3</sup>

**OVERVIEW:**

Commercially available Fluorspar also contains about 0.8 to 1.5% SiO<sub>2</sub> plus minor trace impurities. The product is minimally hazardous when its delivered state combined with about 10% maximum water as a filtercake. Dust hazards exist when the product is either dried intentionally or through prolonged open storage.

### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

|                                |      |  |      |
|--------------------------------|------|--|------|
| <b>Boiling Point</b>           | N/A  | <b>Specific Gravity (H<sub>2</sub>O = 1)</b>   | 3.18 |
| <b>Vapor Pressure (mm Hg.)</b> | None | <b>Melting Point</b>                           | 2450 |
| <b>Vapor Density (AIR = 1)</b> | N/A  | <b>Evaporation Rate</b><br>(Butyl Acetate = 1) | N/A  |

**Solubility in Water:** 16 MG/L  
**Appearance and Odor:** Mauve or Off-White, Odorless

## SECTION IV – FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** N/A  
**LEL:** N/A  
**Extinguishing Media:** N/A  
**Unusual Fire and Explosion Hazards:** N/A

**Flammable Limits:** N/A  
**LIEL:** N/A  
**Special Fire Fighting Procedures:** N/A

## SECTION V – REACTIVITY DATA

**Stability:** Stable  
**Conditions to Avoid:** Avoid presence of uncontrolled strong acid

**Incompatibility (Materials to Avoid):** Strong Acids

**Hazardous Decomposition or Byproducts:** No  
**Hazardous Polymerization:** Will not occur  
**Conditions to Avoid:** N/A

## SECTION VI – HEALTH HAZARD DATA

**Potential Health Effects:** Overexposure when product is dry or dusty may result in eye, skin, or respiratory tract irritation.

|                         |            |                      |                       |
|-------------------------|------------|----------------------|-----------------------|
| <b>Carcinogenicity:</b> | <b>NTP</b> | <b>RC Monographs</b> | <b>OSHA Regulated</b> |
|                         | N/A        | N/A                  | No                    |

**Signs and Symptoms of Exposure:** Irritation to eyes, skin, or respiratory tract  
**Medical Conditions due to exposure:** None known

### Emergency/First Aid Procedures:

1. **Eye Contact** – Flush thoroughly with tepid water.
2. **Skin Contact** – Wash thoroughly with soap and water.
3. **Inhalation** – Remove to fresh air.
4. **Ingestion** – Give plenty of water.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps to Be Taken in Case Material is Released or Spilled:** Sweep and scoop up and remove.  
**Waste Disposal Method:** Restock or dispose of in a manner to avoid dusting. Should large volumes require disposal, check with waste disposal regulatory agencies.  
**Precautions to Be Taken in Handling and Storing:** Avoid strong acids.  
**Other Precautions:** If bulk material is to be handled, caution regarding dust hazard be employed.

## SECTION VIII – PERTINENT INFORMATION

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