FLUORSPAR
Material Safety Data Sheet

SECTION I – CHEMICAL PRODUCT

Product Name: Fluorspar
Chemical Name/Synonyms: Calcium Fluoride
Chemical Formula: CaF₂
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/m³

OVERVIEW:
Commercially available Fluorspar also contains about 0.8 to 1.5% SiO₂ 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>None</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>3.18</td>
</tr>
<tr>
<td>Melting Point</td>
<td>2450</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>16 MG/L</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Mauve or Off-White, Odorless</td>
</tr>
</tbody>
</table>
SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A 
LEL: N/A 
Flammable Limits: N/A 
LEL: N/A 
L I E L : N/A 
Extinguishing Media: N/A 
Special Fire Fighting Procedures: N/A 
Unusual Fire and Explosion Hazards: 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. 

Carcinogenicity: NTP RC Monographs OSHA Regulated 
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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