



## **SAFETY DATA SHEET: FLUORO GYPSUM**

### **1. IDENTIFICATION OF THE SUBSTANCE/COMPANY**

#### **1.1 Product identifier**

Product name: Fluoro gypsum (anhydrous calciumsulphate)

#### **1.2 Details of the supplier of the safety data sheet**

Company: OMV (Pty Ltd)  
Industrial minerals  
108 Pebble lane  
Clayville ext.14  
Olifantsfontein  
Telephone: +27 11 316 4390 (SA)  
Website: [www.omv.co.za](http://www.omv.co.za)

### **2. HAZARDS IDENTIFICATION**

#### **2.1 Classification of the substance or mixture**

No data available.

#### **2.2 Label elements**

No data available.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1 Substances**

Ingredient	CAS Number	Chemical Formula	Concentration
Calcium sulphate	7778-18-9	CaSO <sub>4</sub>	93 - 97 %

### **4. FIRST AID MEASURES**

#### **4.1 Description of first aid measures**

IF INHALED

Move to fresh air in case of accidental inhalation of dust or of vapours of decomposition products.

IN CASE OF SKIN CONTACT

Wash off immediately with plenty of water for at least 15 minutes.



#### IN CASE OF EYE CONTACT

Rinse thoroughly with plenty of water, including under the eyelids.

#### IF SWALLOWED

Drink plenty of water. Consult a physician if necessary.

### **5. FIRE FIGHTING MEASURES**

#### **5.1 Extinguishing media**

##### **SUITABLE EXTINGUISHING MEDIA**

Water, water spray, foam, dry powder.

#### **5.2 Special hazards arising from the substance or mixture**

Heating can release hazardous gases.

#### **5.3 Advice for firefighters**

In case of fire, wear a self-contained breathing apparatus.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation and use an effective dust mask.

#### **6.2 Environmental precautions**

Prevent product from entering drains.

#### **6.3 Methods and materials for containment and cleaning up**

Shovel into suitable container for disposal.

### **7. HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.  
Use only in well-ventilated places.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Keep in a cool, dry place.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

*Expressed as Time Weighted Averages (TWAs) over 8-hour working shifts*



## 8.1 NIOSH Recommended Exposure Limits (REL) (guideline)

Total dust: 10 mg/m<sup>3</sup>

Respirable fraction: 5 mg/m<sup>3</sup>

Source: NIOSH, 1992

Fluorogypsum reacts violently with aluminium when heated and mixtures with phosphorous may ignite. When heated to decomposition it emits toxic fumes of Sox.

## 8.2 Exposure controls

Ensure adequate ventilation, especially in confined areas.

## 8.3 Control parameters

OSHA PEL 8H TWA = 15 mg/m<sup>2</sup> total dust

OSHA PEL 8H TWA 5 mg/m<sup>2</sup> respirable fraction

ACGIH TLV = 10 mg/m<sup>3</sup>

Total dust: 15 ppm

No limits on skin exposure

Respirable fraction 5 mg/m<sup>3</sup>

Source: 29 CFR 1910.1000 (2000)

## 8.4 Personal protective equipment

### EYE/FACE PROTECTION

Tightly fitting safety goggles. Eye wash bottle with pure water.

### SKIN PROTECTION

Lightweight protective clothing and protective gloves.

### RESPIRATORY PROTECTION

Effective dust mask.

### HYGIENE METHODS

Wash hands before breaks and at the end of a workday. When using the product, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Colour:white Odour: none

pH: 8 - 13

Moisture: 0 - 1%



Appearance form: solid  
Typical tap density: 1600 kg/m<sup>3</sup>  
Typical pour density: 1330 kg/m<sup>3</sup>  
Molecular weight: 136.14  
Melting point: 1193 °C  
Boiling point: 1450 °C

## 10. STABILITY AND REACTIVITY

<b>Hazardous reactions:</b>	None under normal conditions of use
<b>Stability:</b>	Products are stable under recommended handling and storage conditions
<b>Conditions to avoid:</b>	Stable
<b>Incompatible materials:</b>	No restrictions
<b>Hazardous decomposition products:</b>	None known

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

ACUTE TOXICITY  
No data available.

CHRONIC TOXICITY  
No available data.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Prevent from entering water waste.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

WASTES FROM RESIDUES AND UNUSED PRODUCTS

Can be land-filled in compliance with local regulations.

CONTAMINATED PACKAGING

Empty remaining contents of containers. Empty containers can be land-filled when in compliance with



local regulations.

**14. TRANSPORT INFORMATION**

Not classified as hazardous for transport.

**15. REGULATORY INFORMATION**

**15.1 Applicable regulations**

Refer to country of destination.

**16. OTHER INFORMATION**

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products.