



FLUOROGYPSUM MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/COMPANY

1.1 Product identifiers

Product name: Fluorogypsum (anhydrous calcium sulphate)
Brand: Metadynamics

1.2 Details of the supplier of the safety data sheet

Company: Metadynamics CC
108 Pebble Lane, Clayville ext. 14, Olifantsfontein, SA
Tel: +27 11 316 4390 (SA) or +27 87 351 4886 (VOIP)
Fax: +27 11 316 4395
www.metadynamics.co.za

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

No data available.

2.2 Label elements

No data available.

2.3 Other hazards

No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula: CaSO_4
Synonyms: Calcium sulphate, anhydrous gypsum

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/m³
Respirable fraction: 5 mg/m³
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. It reacts exothermically with the methylating agent diazomethane to the point of exploding (Lewis, 1989).

8.2 Exposure controls

Ensure adequate ventilation, especially in confined areas.

8.3 Control parameters

OSHA PEL 8H TWA = 15 mg/m² total dust
OSHA PEL 8H TWA 5 mg/m² respirable fraction
ACGIH TLV = 10 mg/m³
Total dust: 15 ppm



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No limits on skin exposure
Respirable fraction 5 mg/m³
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

- a) Colour: white
- b) Odour: none
- c) Appearance form: solid
- d) Typical tap density: 1600 kg/m³
- e) Typical pour density: 1330 kg/m³
- f) Molecular weight: 136.14
- g) Melting point: 1193 °C
- h) Boiling point: 1450 °C

10. STABILITY AND REACTIVITY

10.1 Stability

Hygroscopic, heating can release hazardous gases.

10.2 Conditions to avoid

Heating in air.

10.3 Incompatible materials

No data available.

10.4 Hazardous decomposition products

Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

ACUTE TOXICITY

No data available.



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LOCAL EFFECTS

Irritating to the eyes and respiratory system.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Must be prohibited in organic production systems.

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 dangerous in terms of transport regulations.

14.1 Labels

Non-hazardous.

14.2 Proper shipping name

Anhydrous calcium sulphate.

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. This information is believed to be reliable and updated at 24/07/14 and represents the best information currently available and known by Metadynamics. However, Metadynamics makes no guarantee or warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions/alterations. Users should make their own investigations to determinate the suitability of the information for their particular purposes.

RECOMMENDED USE

Additive in cement, used in the manufacture of plasterboard and glass.

REFERENCES

CED Chemical exchange directory SA, Geneva, Switzerland.

Unpublished reports, AEC of SA Ltd., Pelindaba, South Africa, 1993.