

SECTION 1: Identification of the substance/preparation and of the company/undertaking

Identification of the Product

Product Name: Calcium sulfate 2-hydrate

Alternate Name(s): Calcium sulfate dihydrate

Use of the Product/Preparation

Pharmaceutical & chemical production and analysis, laboratory reagent

Details of the supplier of the safety data sheet

PHINE KEMIKALS INDIA

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INDIA

T +919824063593

info@phinekem.in, www.phinekem.in

Emergency telephone number

Emergency number : + 919023930031 (24 hrs)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

SECTION 2: Composition/information on ingredients

Substance: Calcium Sulphate di-hydrate

CAS No.: 10101-41-4

EC No.: 231-900-3

Molecular weight: 172.17 g/mol

Chemical Formula: CaSO₄.2H₂O

SECTION 3: Hazards Identification

Non-hazardous product as specified in Directive 67/548/EEC

SECTION 4: First aid measures

Inhalation: Move to fresh air. Seek medical advice if symptoms persist.

Skin contact: Wash thoroughly with water. Remove contaminated clothing.

Eye contact: Rinse with plenty of water for several minutes. Seek medical advice.

Ingestion: Immediately make victim drink plenty of water, induce vomiting. Seek immediate medical attention.

SECTION 5: Firefighting measures

Suitable extinguishing media: Water spray, Dry chemical, CO₂ or Foam type. Select in adoption to materials stored in

the immediate neighborhood.

Special risks: Non-combustible. The following may develop in event of fire: sulfur oxides.

Other information: Prevent fire-fighting water from entering surface water or ground water.

SECTION 6: Accidental release measures

Person-related precautionary measures:

Avoid generation of dust: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Environmental protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up dry. Forward for disposal. Clean up affected area.

SECTION 7: Handling and storage

Handling: No further requirements

Storage: Tightly closed. Dry Storage. Temperature: No Restrictions

SECTION 8: Exposure controls/personal protection

Personal protective equipment: Protective clothing should be selected specifically for the working place, depending on the concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dust is generated.

Eye protection: required

Hand protection: In full contact & splash contact:

Glove material: nitrile rubber

Layer thickness: 0.11 mm

Industrial hygiene: Change contaminated clothing. Wash hands and face after working with substance.

SECTION 9: Physical and chemical properties

Form:		solid
Colour:	colourless	
Odour:	odourless	
pH value		
at 50 g/l H ₂ O (20°C)	5.0 – 8.0	(slurry)
Melting point	Not available	
Boiling point	Not applicable	
Ignition temperature	not combustible	
Flash point	not flammable	
Explosion limits lower	not applicable	
upper	not applicable	
Density (20°C)	2.32 g/cm ³	
Bulk density	~400 – 600 kg/m ³	
Solubility in water (20°C)	~2 g/l	
Thermal decomposition	> 140	°C (release of water of crystallization)

SECTION 10: Stability and reactivity

Conditions to be avoided

No information available

Substances to be avoided

none

Hazardous decomposition products

In the event of fire. See chapter 5

Further information

releases water of crystallization when heated.

SECTION 11: Toxicological information

Acute toxicity

LD50 (oral, rat): > 10000 mg/kg

Subacute to Chronic toxicity

Sensitization:

Experience to man. No sensitizing effect.

Bacterial mutagenicity: Ames Test: Negative

Further toxicological information

After skin contact: No irritation.

After eye contact: No irritation.

Further data

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals

SECTION 12: Ecological information

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Ecotoxic effects:

Quantitative data on the ecological effect of this product is not available.

Biological effects: Fish Toxicity: *L. macrochirus* LC50: 2980 mg/l/96 h

Further ecological date:

No ecological problems are to be expected when the product is handled and used with due care and attention

SECTION 13: Disposal considerations

Product: Chemicals must be disposed of in compliance with the respective national regulations.

Packaging

Product packaging: must be disposed of in compliance with the respective national regulations or must be passed to a packaging return system, if available

SECTION 14: Transport information

Not Subject to transport regulations (ADR/RID, AND, IATA, IMDG)

SECTION 15: Regulatory information

Labeling according to EC Directives:

Symbol: --
R-phrases: --
S-phrases: --

SECTION 16: Other information

Reason for alteration
Release 1: Original
Regional representation:
India: given in Chapter 1 (company identification)

Disclaimer:

This Safety Data Sheet (SDS) information is based on our current knowledge and is intended to describe the product for health, safety, and environmental purposes only. It should not be interpreted as a guarantee of any specific product property.