# **PLASTER OF PARIS | CAMEO Chemicals**

cameochemicals.noaa.gov/chemical/25054

Chemical Datasheet

#### **PLASTER OF PARIS**

Chemical Identifiers | Hazards | Response Recommendations | Physical Properties | Regulatory Information | Alternate Chemical Names

#### Chemical Identifiers

What is this information? >

**CAS Number** UN/NA Number DOT Hazard Label USCG CHRIS Code

26499-65-0 none data unavailable none

**NIOSH Pocket Guide International Chem Safety Card** 

Plaster of Paris (7) PLASTER OF PARIS (7)

NFPA 704

data unavailable

General Description

White or yellowish, finely divided, odorless powder consisting mostly or entirely of calcium sulfate hemihydrate, CaSO4\*1/2H2O. Forms a paste when it is mixed with water that soon hardens into a solid. Used in making casts, molds, and sculpture. Generally non-toxic.

#### Hazards

What is this information? > Reactivity Alerts

none

Air & Water Reactions

No rapid reaction with air. No rapid reaction with water. Fire Hazard No information available. Health Hazard Excerpt from NIOSH Pocket Guide for Plaster of Paris (7): Exposure Routes: Inhalation, ingestion, skin and/or eye contact Symptoms: Irritation eyes, skin, mucous membrane, respiratory system; cough Target Organs: Eyes, skin, respiratory system (NIOSH, 2022) Reactivity Profile PLASTER OF PARIS is non-flammable and non-combustible. Has generally low chemical reactivity but can act as an oxidizing agent under extreme conditions. Decomposes at high temperature to generate toxic oxides of sulfur. Reacts exothermically but slowly with moisture in the air or water to form gypsum CaSO4.2H2O. Belongs to the Following Reactive Group(s) Non-Redox-Active Inorganic Compounds Potentially Incompatible Absorbents No information available. **Response Recommendations** What is this information? ▶ Isolation and Evacuation No information available. Firefighting No information available. Non-Fire Response No information available.

Protective Clothing

Excerpt from NIOSH Pocket Guide for Plaster of Paris (>):

Skin: No recommendation is made specifying the need for personal protective equipment for the body.

Eyes: No recommendation is made specifying the need for eye protection.

Wash skin: No recommendation is made specifying the need for washing the substance from the skin (either immediately or at the end of the work shift).

Remove: No recommendation is made specifying the need for removing clothing that becomes wet or contaminated.

Change: No recommendation is made specifying the need for the worker to change clothing after the workshift. (NIOSH, 2022)

DuPont Tychem® Suit Fabrics

No information available.

First Aid

Excerpt from NIOSH Pocket Guide for Plaster of Paris (7):

Eye: IRRIGATE IMMEDIATELY - If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.

Breathing: RESPIRATORY SUPPORT - If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Swallow: MEDICAL ATTENTION IMMEDIATELY - If this chemical has been swallowed, get medical attention immediately. (NIOSH, 2022)

## **Physical Properties**

What is this information? ▶

Chemical Formula: CaSO4 = 0.5H2O

Flash Point: data unavailable

Lower Explosive Limit (LEL): data unavailable

Upper Explosive Limit (UEL): data unavailable

Autoignition Temperature: data unavailable

Melting Point: 325°F (Loses H2O) (NIOSH, 2022)

Vapor Pressure: 0 mmHg (approx) (NIOSH, 2022)

Vapor Density (Relative to Air): data unavailable

Specific Gravity: 2.5 (NIOSH, 2022)

Boiling Point: data unavailable

Molecular Weight: 145.2 (NIOSH, 2022)

Water Solubility: 0.3 % at 77°F (NIOSH, 2022)

Ionization Energy/Potential: data unavailable

IDLH: data unavailable

#### **AEGLs (Acute Exposure Guideline Levels)**

No AEGL information available.

### **ERPGs (Emergency Response Planning Guidelines)**

No ERPG information available.

## PACs (Protective Action Criteria)

No PAC information available.

### **Regulatory Information**

What is this information? >

#### **EPA Consolidated List of Lists**

No regulatory information available.

#### **CISA Chemical Facility Anti-Terrorism Standards (CFATS)**

No regulatory information available.

## **OSHA Process Safety Management (PSM) Standard List**

No regulatory information available.

### **Alternate Chemical Names**

#### What is this information? ▶

- CALCIUM SULFATE HEMIHYDRATE
- CRYSTACAL
- DENSITE
- DENSITE (GYPSUM)
- DRIED CALCIUM SULFATE
- DRIED GYPSUM
- FGR
- GYPSUM HEMIHYDRATE
- HEMIHYDRATE GYPSUM
- PH 200
- PH 200 (FILLER)
- PLASTER OF PARIS
- SAKURA PLASTER OF PARIS B GRADE
- TA 20
- TIGER STONE