



Safety Data Sheet

Issue Date 19-Aug-2013

Revision Date: 01-Oct-2017

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Plaster of Paris – White Granular Powder

Other means of identification

SDS # RD-0012

Product Code 0361 Series

Recommended use of the chemical and restrictions on use

Recommended Use To be mixed w/ water & used in hobbies & crafts.

Details of the supplier of the safety data sheet

Emergency Telephone Number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance White granular powder

Physical State Solid (hygroscopic
crystals; powder)

Odor Odorless

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Calcium Sulfate	7778-18-9	100

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush w/ large quantities of water for @ least 15 minutes, lifting lids occasionally. Get medical attention.
Skin Contact	In case of contact, immediately wash w/ soap & water for @ least 20 minutes. If symptoms persist, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen & get medical attention.
Ingestion	If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person. Contact a physician or poison control center immediately.

Most important symptoms and effects

Symptoms	May cause skin irritation. Causes eye irritation. Causes respiratory tract & mucous membrane irritation. Symptoms may include coughing, rhinitis, epistaxis, sneezing, pneumonia & labored breathing. Ingestion: Because it hardens quickly after absorbing moisture, ingestion may result in obstruction.
-----------------	---

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media None known.

Specific Hazards Arising from the Chemical

Unusual Fire or Explosion Hazards: Calcium Sulfate mixed w/ phosphorous will ignite @ high temperatures. When primed @ high temperature w/ potassium nitrate-calcium silicide mixture, calcium sulfate mixed w/ excess red phosphorous will burn. When heated to decomposition, it emits toxic fumes of oxides of sulfur & calcium. Contact w/ diazomethane causes an exothermic reaction which may lead to detonation. A violent or explosive reaction can occur upon heating when calcium sulfate is mixed w/ aluminum powder. Containers of calcium sulfate may explode when heated.

Hazardous Combustion Products Carbon oxides. Nitrogen oxides (NOx).

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Be careful that product is not present @ a concentration level above TLV (See section 8).
-----------------------------	--

For Emergency Responders Restrict access to spill area.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Avoid the generation of dusts during clean-up. Small Spill: Use appropriate tools to put spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on contaminated surface & dispose of calcium sulfate according to legal requirements

Large Spill: Use a shovel to put material into convenient waste disposal container. Finish cleaning by spreading water on contaminated surface & allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Do not breath dust of Calcium sulfate. Keep away from children and pets. Do not eat, drink or smoke when using this product. See section 6 of this SDS for clean up instructions. Use only in well-ventilated areas.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Hygroscopic. Close container after each use & keep tightly closed when not in use. To maximize shelf life, store @ temperatures below 26C (80F). Store away from incompatible materials.

Incompatible Materials Strong oxidizing agents, Acids, diazomethane, aluminum, magnesium, phosphorous.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Sulfate 7778-18-9	TWA: 10 mg/m ³ inhalable fraction	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust

Other Information Consult local authorities for acceptable exposure limits.

Appropriate engineering controls

Engineering Controls Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below exposure limit.

In Case of Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. Self contained breathing apparatus should be used to avoid inhalation of product. Suggested protective clothing might not be sufficient; consult a specialist before handling this material.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations & standards.

Skin and Body Protection	Wear suitable protective clothing.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid (hygroscopic crystals; powder)	Odor	Odorless
Appearance	White granular powder	Odor Threshold	Not determined
Color	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not available	
Melting Point/Freezing Point	~ 72 °C / ~161.6 °F	
Boiling Point/Boiling Range	Not established	
Flash Point	Not flammable	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Unknown	
Lower Flammability Limit	Unknown	
Vapor Pressure	Not established	
Vapor Density	Not determined	
Specific Gravity	~2.32 (Water = 1)	@ 25 °C (77 °F)
Water Solubility	Slightly soluble in cold water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not applicable	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	
Oxidizing Properties	Not an oxidizer	
Molecular Weight	~172	
VOC Content (%)	0%/wt	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions. Hygroscopic; keep container tightly closed

Chemical Stability

Stable under normal conditions. If exposed to moisture, material will cake.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization	Hazardous polymerization does not occur.
---------------------------------	--

Conditions to Avoid

Avoid generation of dust, high temperatures, moisture & incompatible materials.

Incompatible Materials

Strong oxidizing agents, Acids, diazomethane, aluminum, magnesium, phosphorous.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Eye Contact	May cause temporary irritation on eye contact.
Skin Contact	May cause temporary irritation on skin contact.
Inhalation	May cause slight discomfort to respiratory tract.
Ingestion	Accidental ingestion may cause discomfort.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium Sulfate 7778-18-9	> 3000 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

PRACTICES SHOULD BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Calcium Sulfate 7778-18-9		2980: 96 h Lepomis macrochirus mg/L LC50 static 1970: 96 h Pimephales promelas mg/L LC50 static		3200: 120 h Nitscheria linearis mg/L EC50

Persistence/Degradability

Possible hazardous short term degradation products are not likely, however long term degradation products may arise Products of degradation are less toxic than product itself

Bioaccumulation

Not tested for bio-accumulation potential

Mobility

Not tested for mobility in soil

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION**International Inventories**

Not determined

Legend:*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances***US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Sulfate 7778-18-9	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	Not determined

Issue Date 19-Aug-2013
Revision Date: 01-Oct-2017
Revision Note Not Applicable

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet