

SECTION I		NAME	24 HOUR EMERGENCY ASSISTANCE
Product		CALCIUM SULFATE, HEMIHYDRATE	CHEMTREC 800-424-9300 Day 716-228-6177 Night 716-334-4222 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4
Chemical Synonyms		Plaster of Paris, dried gypsum	
Formula		CaSO ₄ •1/2H ₂ O	
Unit(s) Size		100, 500 grams; 2.5, 12 Kg.	
C.A.S. No.		10034-76-1	

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES		
Principal Hazardous Component(s)	%	TLV Units
Calcium Sulfate, Hemihydrate	>90%	See Section V.
WARNING! HARMFUL IF SWALLOWED.		
NUISANCE DUST.		

SECTION III PHYSICAL DATA			
Melting Point (°F)	-H ₂ O @ 128°C (262°F)	Specific Gravity (H ₂ O = 1)	2.79 @ 20°C
Boiling Point (°F)	None listed.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (= 1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	0.23 grams in 100 mL. of water at 20°C.		
Appearance & Odor	White powder, granular, lumps; no odor. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA				
Flash Point (Method Used)	Non-combustible (NA).	Flammable Limits in Air % by Volume	NA	Lower Upper -----
Extinguisher Media	Use any media suitable for extinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES	In fire conditions, wear a NIOSH-approved, self-contained breathing apparatus and protective clothing.
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UNUSUAL FIRE AND EXPLOSION HAZARDS	When heated to decomposition (above 1400°C), emits toxic fumes of oxides of sulfur and Calcium Oxide as dust.
D.O.T.	NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA	
Threshold Limited Value	Nuisance dust 15 mg/m ³ total; 5 mg/m ³ respirable. TLV 10 mg/m ³ .

Effects of Overexposure	INGESTION: Because it hardens quickly after absorbing moisture, its ingestion may result in obstruction, particularly at the pylorus. EYES: May cause irritation. SKIN: Causes drying and irritation.
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Emergency and First Aid Procedures	EYE CONTACT: Flush eyes thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, get medical attention. SKIN: Flush with water. INHALATION: Remove to fresh air. If discomfort or illness develop, get medical attention. INGESTION: If swallowed, if conscious, drink large quantities of water to delay "setting". Get immediate medical attention. Never give anything by mouth to an unconscious person.
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SECTION VI REACTIVITY DATA		
Stability	Unstable	Conditions to Avoid
	Stable	X Moisture - sets to a hardened mass.
Incompatibility (Materials to Avoid)	Acids.	
Hazardous Decomposition Products	When heated to decomposition (above 1400°C), emits toxic fumes of oxides of sulfur and Calcium Oxide dust.	
Hazardous Polymerization	Conditions to Avoid	
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES	
Steps to be taken in case material is released or spilled	Sweep up and place in a suitable container. Avoid creating dust. May plug drains.

Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Uncontaminated material may be disposed of in a sanitary landfill. Check local codes.
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SECTION VIII SPECIAL PROTECTION INFORMATION				
Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH-approved dust mask.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	None required, but recommend gloves for repeated exposures.	Eye Protection	Chemical safety glasses.	
Other Protective Equipment	Goggles, smock, apron, proper gloves, eye wash station, ventilation hood.			

SECTION IX SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Wash thoroughly after handling.
Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No.	No. 2	Date	8/14/91	Approved	Alexander A. Piccirilli	Chemical Safety Coordinator	AP
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