

MATERIAL SAFETY DATA SHEET

Home Training Tools, Ltd.
665 Carbon Street, Billings, MT 59102
406-256-0990

CHEMTREC 24 Hour Emergency
Phone 800-424-9300

Section I – Name			
Product Number:	GS-PLASTER		
Chemical Name and Synonyms:	Plaster of Paris		
Trade Name and Synonyms:	Calcium sulfate hemihydrate		
Formula:	CaSO ₄ · 0.5H ₂ O		
C.A.S Number:	26499-65-0		
Hazard Rating:	0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe		
	Health	Flammability	Reactivity
	1	0	0
Section II – Hazardous Ingredients			
Principle Components	%	TLV Units	
Plaster of Paris	>90%	See Section V	
Section III – Physical Data			
Melting Point (°F)	325°F	Specific Gravity (H ₂ O =1)	2.5
Boiling Point (°F)	N/A	% Volatile by Volume	N/A
Vapor Pressure (mmHg)	0 mmHg	Vapor Density (Air=1)	N/A
Solubility in Water	0.3% at 77°F		
Appearance and Odor	White powder, granular, no odor, hygroscopic		
Section IV – Fire and Explosion Data			
Flash Point:	Non-combustible		
Flammable Limits:	N/A		
Extinguishing Media:	Use any media suitable for extinguishing supporting fire.		
Special Fire Fighting Procedures	Wear NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.		
Fire and Explosion Hazards	When heated to decomposition (above 1400°F), emits toxic fumes of oxides of sulfur and calcium oxide as dust.		
D.O.T. Classification	Not regulated		
Section V – Health Hazard Data			
Threshold Limit Value	NIOSH REL: TWA 10mg/m ³ (total) NIOSG REL TWA 5mg/m ³ (respiratory)		
Effects of Overexposure	May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with		

	eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.	
Emergency and First Aid Procedures		
SKIN: Wash exposed area with mild soap and water. If irritation persists, seek medical attention.		
EYES: Flush eyes with water for at least 15 minutes, lifting upper and lower lids occasionally. Seek Medical Aid.		
INHALATION: Remove to fresh air. If not breathing, give artificial respiration.		
INGESTION: Call a physician or Poison Control Center immediately.		
Section VI – Reactivity Data		
Stability	Stable	
Conditions to Avoid	Acids	
Incompatibility	Moisture – sets to a hardened mass	
Hazardous Decomposition Products	When heated to decomposition (above 1400°F), emits toxic fumes of oxides of sulfur and calcium oxide as dust.	
Hazardous Decomposition	Will not occur.	
Section VII – Spill or Leak Procedures		
Steps to Be Taken In Case Material is Spilled or Released		
Recover for use if not contaminated. Avoid creating excessive dust. Sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.		
Waste Disposal method		
Follow Local, State, and Federal Regulations.		
Section VIII – Special Protection Information		
Respiration Protection	None needed in normal conditions. If dusty conditions prevail, use a NIOSH/MSHA-approved dust mask.	
Ventilation	Local exhaust or Mechanical	
Protective Gloves	None required but recommended for repeated exposure.	
Eye Protection	Chemical safety goggles.	
Other Protective Equipment	Goggles, smock, apron, proper gloves, eyewash station, ventilation hood.	
Section IX – Special Precautions		
Handling and Storage		
Store in a cool dry place. Wash thoroughly after handling.		
Other Precautions		
Avoid breathing dust. Remove and wash contaminated clothing.		
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