Calcium Sulfate, Hemihydrate



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Calcium Sulfate, Hemihydrate Science education applications Sulfuric Acid, Calcium Salt (1:1); Plaster of Paris Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Section 2

Other Safety Precautions:

May cause eye irritation. May cause gastrointestinal discomfort. May cause irritation to respiratory tract. May cause irritation to skin.

Section 3

Composition / Information on Ingredients

Chemical Name	CAS #	<u>%</u>
Calcium Sulfate, Hemihydrate	26499-65-0	80
Calcium carbonate	1317-65-3	19
Crystalline silica	14808-60-7	1

Section 4

First Aid Measures

Emergency and First Aid Procedures				
In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.				
Skin Contact: After contact with skin, wash immediately with plenty of water.				
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this contain	er or label.			

Section 5

Firefighting Procedures

Extinguishing Media:			
Fire Fighting Methods and Protection:			

Fire and/or Explosion Hazards: Hazardous Combustion Products:

breathing apparatus. Fire or excessive heat may produce hazardous decomposition products. Sulfur Oxides, Calcium Oxides

Firefighters should wear full protective equipment and NIOSH approved self-contained

Section 6

Spill or Leak Procedures

Use media suitable to extinguish surrounding fire.

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up. Vacuum or sweep up material and place in a disposal container Avoid runoff into storm sewers and ditches that lead to waterways.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Contain the discharged material. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling:	Avoid contact with skin and eyes. Do not breathe dust. Harmful: danger of serious damage to health by
	prolonged exposure in contact with skin.
Storage:	Keep container tightly closed in a cool, well-ventilated place.
Storage Code:	Green - general chemical storage

Section 8

Protection Information

	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	(STEL)	
Calcium Sulfate, Hemihydrate	10 mg/m3 TWA	N/A	15 mg/m3 TWA	N/A	
	(inhalable fraction,		(total dust); 5		
	listed under Calcium		mg/m3 TWA		
	sulfate)		(respirable fraction)		
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Good general room ventilation should be sufficient to control airborne contaminates to safe levels.				
Personal Protective Equipment (PPE):					
Respiratory Protection:	No respiratory protection required under normal conditions of use. Wear a NIOSH				
	approved respirator if any exposure is possible.				
Respirator Type(s):	NIOSH approved air purifying respirator with dust/mist filter.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene.				
Gloves:	Natural rubber, Neoprene, I	PVC or equivale	ent.		

Physical Data

Formula: CaSO4•1/2H2O Molecular Weight: 145.15 Appearance: White to Gray Powder Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: 1450 C Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.68 Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Section 9

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization: No data available Stable under normal conditions. None known. Strong oxidizing agents Calcium Oxides, Sulfur Oxides Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation. Respiratory disorders Respiratory Irritation				
Acute Toxicity: Chemical Name No data available		CAS Number 26499-65-0 1317-65-3 14808-60-7	Oral LD50 Not determined	Dermal LD50 Not determined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name NTP: Known to be a hu (respirable). [crystalline ed: Group 1: Carcinoge [crystalline silica]*	e silica]* IARC classifi	CAS Number 26499-65-0 1317-65-3 14808-60-7	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic: Section 12	Itagenicity:No evidence of a mutagenic effect.ratogenicity:No evidence of a teratogenic effect (birth defect).nsitization:No evidence of a sensitization effect.productive:No evidence of negative reproductive effects.rget Organ Effects:See Section 2Acute:See Section 2Not listed as a carcinogen by IARC, NTP or OSHA.				
Overview: Mobility: Borsistanco:	erview: This material is not expected to be harmful to the ecology. bility: No data				

Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects: This material is not expected to be harmful to the ecology. No data No data No data No data No data

Chemical Name N/A

CAS Number 26499-65-0 1317-65-3 14808-60-7

r Eco Toxicity

Section 13

Disposal Information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name: N/A

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

Section 14

Regulatory Information

TSCA Status:

A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	26499-65-0 1317-65-3 14808-60-7	No	No	No	No	No

Additional Information

Section 16

Revised: 10/21/2015

Replaces: 09/09/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health