# Sulfur, Powder



### **Section 1**

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Chemical Information: Chemtrec: Sulfur, Powder Science education applications Sulphur, Brimstone Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

#### **Section 2**

**Hazard Identification** 

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



Causes skin irritation.

**GHS Classification:** Skin Corrosion/Irritation Category 2

Section 3	Composition / Inf	ormation on Ingre	edients			
<u>Chemical Name</u> Sulfur, Powder		<u>CAS #</u> 7704-34-9	<u>%</u> 100			
Section 4	First /	Aid Measures				
Eyes:In casSkin Contact:After of	edures e of accident by inhalation: remove ca e of contact with eyes, rinse immediat contact with skin, wash immediately w lowed, do not induce vomiting: seek r	tely with plenty of water and s ith plenty of water.	seek medical advice.			
Section 5	Firefight	ing Procedures				
Extinguishing Media: Fire Fighting Methods and Pro		ntities. Apply water from as fa ull protective equipment and	ar a distance as possible. NIOSH approved self-contained			
Fire and/or Explosion Hazards	: Avoid Dusting. May becor burning material may cau	Avoid Dusting. May become explosive when dispersed in air. Water sprayed onto burning material may cause frothing and splattering of burning liquid with possible injury of firefighting personnel. Fire or excessive heat may produce hazardous decomposition				
Hazardous Combustion Products: Sulfur containing gases						
Section 6	Spill or Leak P	Procedures				
Steps to Take in Case Material Released or Spilled:	equipment recommendations necessary based on special ci	found in Section 8 of this SDS ircumstances created by the sea in which the spill occurred.	S. Additional precautions may be spill including; the material spilled, . Also consider the expertise of			

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.

## Section 7

### Handling and Storage

па	nai	ing	:

. . . . . . . . . . . . Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust. Keep container tightly closed in a cool, well-ventilated place. Storage: Storage Code: Green - general chemical storage

### Section 8

## **Protection Information**

	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	<u>(STEL)</u>	
Sulfur	N/A	N/A	N/A	N/A	
Control Parameters					
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye wa	ash, safety shower.			
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.				
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.				
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.				
Gloves:	No information available	e			

#### Section 9

Formula: S8 Molecular Weight: 32.07 Appearance: Yellow Powder Odor: Moderate Rotten-Egg Odor Odor Threshold: No data available pH: No data available Melting Point: 107 C Boiling Point: 444 - 447 C Flash Point: 207 C Flammable Limits in Air: 35 - 1400 g/m3

## Section 10

Reactivity: **Chemical Stability:** Conditions to Avoid:

**Incompatible Materials:** Hazardous Decomposition Products: Hazardous Polymerization:

#### Physical Data

Vapor Pressure: 1.3 hPa at 20°C Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: 2.07 @ 25°C Solubility in Water: Practically Insoluble Log Pow (calculated): No data available Autoignition Temperature: 232 C Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

### Reactivity Data

Mildly reactive - See below Stable under normal conditions. Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Ammonia, Strong oxidizing agents, Charcoal Sulfur containing gases Will not occur

#### Section 11

#### Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact. Symptoms (Acute): Dermititis, Respiratory Irritation, Metabolic Acidosis, Allergies, Eye disorders **Delayed Effects:** No data available

		<i>con coj =</i>					
Acute Toxicity: Chemical Name Sulfur, Powder		<b>CAS Number</b> 7704-34-9	<b>Oral LD50</b> Oral LD50 Rat > 3000 mg/kg	<b>Dermal LD50</b> Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 INHALATION LC50-4H Rat > 9.23 MG/L		
Carcinogenicity: Chemical Name Sulfur		<b>CAS Number</b> 7704-34-9	IARC Not listed	NTP Not listed	OSHA Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. No data available No data available						
Section 12		Ec	ological Data				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. No data Chemically Transformed No data Naturally occuring element. Does not biodegrade. No data						
Chemical Name Sulfur, Powder	CAS Number 7704-34-9Eco Toxicity96 HR LC50 BRACHYDANIO RERIO 866 MG/L [STATIC] 96 HR LC50 LEPOMIS MACROCHIRUS < 14 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS > 180 MG/L [STATIC]						
Section 13		Dispo	osal Informati	on			
Disposal Methods:Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.Waste Disposal Code(s):Not Determined							
Section 14 Transport Information							
<b>Ground - DOT Proper S</b> NA1350 Sulfur Class 9 P.G. III *Non-bulk quantities are			<b>Air - IATA Proper S</b> UN1350 Sulfur Division 4.1 Class III	Shipping Name:			
Section 15	Section 15 Regulatory Information						
TSCA Status:	A Status: All components in this product are on the TSCA Inventory.						

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sulfur	7704-34-9	No	No	No	No	No

## Section 16

## Additional Information

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**Replaces: None** 

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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	American Conference of Governmental	NTP	National Toxicology Program
ACGIH	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,		Parts per million
DOT	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
	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 IDLH	Toxic Substances Control Act Immediately dangerous to life and health