### Sulfur, Powder

# **CAR**()LINA ww.carolina.c

#### **Product Description**

**Product Name: Recommended Use:** Synonyms: Distributor:

Section 1

Section 2

Sulfur, Powder Science education applications Sulphur, Brimstone 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;

## WARNING



Causes skin irritation. Harmful if inhaled.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 2, Acute Toxicity - Inhalation Dust / Mist Category 4

**Acute Toxicity Oral Contains** Acute Toxicity Dermal Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

Composition / Information on Ingredients

CAS #

7704-34-9

%

100

#### Section 3

Chemical Name Sulfur, Powder

Section 4

Inhalation:

Ingestion:

Eyes:

#### First Aid Measures

#### **Emergency and First Aid Procedures**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Section 5

Skin Contact:

#### Firefighting Procedures

**Extinguishing Media:** Water fog in flooding quantities. Apply water from as far a distance as possible. **Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Fire and/or Explosion Hazards: 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 products. **Hazardous Combustion Products:** Sulfur containing gases Section 6

#### Spill or Leak Procedures

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. Avoid dusting.

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

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust.
Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage: Storage Code:

Section 8

Green - general chemical storage

#### Protection Information

	ACGIH		OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<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 wash, 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

#### 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

#### Section 10

Reactivity: Chemical Stability: Conditions to Avoid:

Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:

### **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		Toxicit	y Data			
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation, ingestion, eye or skin contact. Dermititis, Respiratory Irritation, Metabolic Acidosis, Allergies, Eye disorders No data available					
Acute Toxicity: Chemical Name Sulfur, Powder		<b>CAS Number</b> 7704-34-9	Oral LD50 Not determined	Dermal LD50 Not determined	Inhalation LC50 INHALATION LC50 MAMMAL 1660 MG/M3	
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. s: No data available No data available					
Section 12		Ec	ological Data	1		

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 7704-34-9 96 HR LC50 BRACHYDAN 96 HR LC50 LEPOMIS MA

96 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

### **Disposal Information**

Disposal Methods:

Waste Disposal Code(s):

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

## Section 14

#### **Transport Information**

Ground - DOT Proper Shipping Name: NA1350 Sulfur Class 9 P.G. III \*Non-bulk quantities are exempt\* Air - IATA Proper Shipping Name: UN1350 Sulfur Division 4.1 Class III

#### Section 15

#### **Regulatory Information**

**TSCA 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**

#### Revised: 08/26/2014

#### Replaces: 08/26/2014

#### Printed: 04-21-2015

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.

<b>Glossary</b> 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 IDLH	Toxic Substances Control Act Immediately dangerous to life and health