## Sulfur, Lump



#### Section 1 **Product Description**

**Product Name:** Sulfur, Lump

**Recommended Use:** Science education applications Sulphur, Brimstone, Colloidal Sulfur Synonyms: Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 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. Harmful if inhaled.

#### **GHS Classification:**

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

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

#### Section 3

# Composition / Information on Ingredients

Chemical Name CAS# % Sulfur, Lump 7704-34-9 100

#### Section 4

#### First Aid Measures

**Emergency and First Aid Procedures** 

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 container or label.

#### Section 5

## 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

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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.

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 Code: Green - general chemical storage

#### Section 8 Protection Information

**ACGIH OSHA PEL** 

**Chemical Name** (TWA) (STEL) (TWA) (STEL) 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. eve 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.

None required where adequate ventilation is provided. If airborne concentrations are Respirator Type(s):

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

Gloves: No information available

#### Section 9

### Physical Data

Formula: S8

Vapor Pressure: 1.3 hPa at 20°C

Molecular Weight: 32.07 Evaporation Rate (BuAc=1): No data available Appearance: Yellow Lumps Vapor Density (Air=1): No data available Odor: Moderate Rotten-Egg Odor Specific Gravity: 2.07 @ 25°C

Odor Threshold: No data available Solubility in Water: Practically Insoluble pH: No data available Log Pow (calculated): No data available Melting Point: 107 C Autoignition Temperature: 232 C

Boiling Point: 444 - 447 C **Decomposition Temperature:** No data available

Flash Point: 207 C Viscosity: No data available Flammable Limits in Air: 35 - 1400 g/m3 Percent Volatile by Volume: No data available

### Section 10

### Reactivity Data

Reactivity: Mildly reactive - See below Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above the high flash point of this combustible material in combination with

sparks, open flames, or other sources of ignition.

**Incompatible Materials:** Ammonia, Strong oxidizing agents, Charcoal

**Hazardous Decomposition Products:** Sulfur containing gases

**Hazardous Polymerization:** Will not occur

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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

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Sulfur, Lump7704-34-9Not determinedNot determinedINHALATION

LC50 MAMMAL 1660 MG/M3

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHASulfur, Lump7704-34-9Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: No data available Chronic: No data available

Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: Chemically Transformed

Bioaccumulation: No data

**Degradability:** Naturally occuring element. Does not biodegrade.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Sulfur, Lump 7704-34-9 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: 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

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

 NA1350
 UN1350

 Sulfur
 Sulfur

 Class 9
 Division 4.1

 P.G. III
 Class III

\*Non-bulk quantities and lump form are exempt\* 

\*Lump form is exempt\*

Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Sulfur 7704-34-9 No No No No No

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# Section 16 Additional Information

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.

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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

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