### Bismuth

# CAROLINA® www.carolina.com

#### Section 1

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Bismuth Science education applications N/A 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;

## DANGER

Section 2



Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification:** Acute Toxicity - Oral Category 1

Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

### Section 3

#### **Composition / Information on Ingredients**

Chemical Name	CAS #	<u>%</u>
Bismuth	7440-69-9	100

#### **Section 4**

#### First Aid Measures

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

Inhalation:	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: Immediately call a POISON CENTER or doctor/physician.

#### Section 5

Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection:

Fire and/or Explosion Hazards: Hazardous Combustion Products: Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Fire or excessive heat may produce hazardous decomposition products.

Bismuth Compounds

Spill or Leak Procedures

#### Section 6

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS 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.

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.

Wear chemical splash goggles when handling this product. Have an eye wash station

Vapor Pressure: 1 mmHg at 1021 °C

Specific Gravity: 9.78

Viscosity: No data available

Vapor Density (Air=1): No data available

Solubility in Water: Practically Insoluble

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Percent Volatile by Volume: No data available

Evaporation Rate (BuAc=1): No data available

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

No respiratory protection required under normal conditions of use.

#### **Section 7**

#### Handling and Storage

Handling: Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid creating and inhaling dust. Do not ingest or take internally.
Storage: Store locked up. Keep container tightly closed in a cool place.

Storage Code:

Section 8

### **Protection Information**

	ACG	iIH	OSHA PEL		
<u>Chemical Name</u>	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Bismuth	N/A	N/A	N/A	N/A	

Lab coat, apron, eye wash, safety shower.

available.

work.

No information available

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection: Eye Protection:

Green - general chemical storage

Skin Protection:

Gloves:

#### **Section 9**

**Physical Data** 

Formula: Bi Molecular Weight: 208.98 Appearance: White to Gray Metallic Solid Odor: None Odor Threshold: No data available pH: No data available Melting Point: 271 C Boiling Point: 1564 C Flash Point: No data available Flammable Limits in Air: No data available

#### Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization: Not generally reactive under normal conditions. Stable under normal conditions. Exposure to air. Keep lid tightly closed when not in use.

Reactivity Data

Strong oxidizing agents, Strong acids, Aluminum alloys

Bismuth Compounds Will not occur

#### Section 11

#### **Toxicity Data**

Routes of Entry Symptoms (Acute): Delayed Effects: Inhalation and ingestion. Impaired Kidney Function, Liver disorders No data available

Bismuth

Acute Toxicity: Chemical Name Bismuth		<b>CAS Number</b> 7440-69-9	<b>Oral LD5</b> Oral LD50 Ra GM/KG Oral LD50 Mo 10 GM/KG	t 5 Not dete	al LD50 rmined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name Bismuth		<b>CAS Number</b> 7440-69-9	IARC Not listed	Not listed	I <b>TP</b>	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 information available No information available					
Section 12		Ec	ological D	ata		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. No data No data Bioconcentration is not expected to occur. Naturally occuring element. Does not biodegrade. No data					
Chemical Name Bismuth	CAS Number Eco Toxicity 7440-69-9					
Section 13		Disp	osal Inforn	nation		
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.					
Section 14		Trans	port Inform	mation		
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:Not regulated for transport by US DOT.Not regulated for air transport by IATA.						
Section 15 Regulatory Information						
TSCA Status:	TSCA Status: All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	2 CAA 112(2) TQ
Bismuth	7440-69-	-9 No	No	No	No	No

### Section 16

### **Additional Information**

#### Revised: 09/09/2015

Replaces: 09/03/2014

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 Industrial Hygienists	NTP OSHA	National Toxicology Program 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