## **Bismuth Nitrate, Pentahydrate**



#### **Section 1**

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Bismuth Nitrate, Pentahydrate Science education applications Nitric Acid Bismuth salt, Bismuth Ternitrate 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;



Section 2



May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

#### **GHS Classification:**

Oxidizing Solid Category 2, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3, Acute Toxicity - Oral Category 5

#### **Section 3**

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

Chemical Name
Bismuth Nitrate, 5-Hydrate

<u>CAS #</u> 10361-44-1 <u>%</u> 100

#### Section 4

#### **First Aid Measures**

Section 5	Firefighting Procedures
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Emergency and Fire	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Extinguishing Media:Use dry chemical, CO2 or appropriate foam.Fire Fighting Methods and Protection:Firefighters should wear full protective equipment and NIOSH approved self-contained<br/>breathing apparatus.Fire and/or Explosion Hazards:Product is a strong oxidizer. Contact with combustible materials, flammable materials, or<br/>powdered metals can cause fire or explosion. Can react violently with reducing agents.Hazardous Combustion Products:Nitrogen oxides

#### Section 6

### Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:	Avoid the generation of dusts during clean-up. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area.
	Ventilate the contaminated area. 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 spilled liquid with sand or earth. DO NOT use combustible materials such as

sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

### Handling and Storage

Handling:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep/Store away from clothing//combustible materials. Take any precaution to avoid mixing with combustibles. 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. Keep away from combustible material. Do not ingest or take internally. Avoid contact with skin and eyes. Do not breathe dust.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.
	Store in a secure area suitable for oxidizing agents. Store away from flammable materials, organic solvents and combustible materials.
Storage Code:	Yellow - Reactive. Store separate and away from incompatible material.

## **Protection Information**

	ACGIH		OSHA PEL			
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>		
No data available	N/A	N/A	N/A	N/A		
Control Parameters						
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.					
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.					
Respiratory Protection:	No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if levels above the exposure limits are possible.					
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.					
Skin Protection: Gloves:	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. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. 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. Use impervious gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Impervious rubber					
Section 9	Physica	al Data				

### Physical Data

- Formula: Bi (NO3)3 Molecular Weight: 395.01 Appearance: Colorless to White Crystalline Solid Odor: No data available Odor Threshold: No data available **pH:** No data available Melting Point: No data available 30 C Boiling Point: No data available 78 C Flash Point: No data available Flammable Limits in Air: N/A N/A
- Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.83 Solubility in Water: 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 7** 

**Section 8** 

### **Reactivity Data**

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		Not generally reactive under normal conditions. Stable under normal conditions. None known. Exposure to moisture, NOx,, Metals (powdered), Organic Compounds Nitrogen oxides Will not occur					
Section 11		Toxici	ty Data				
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation and inge None Known No data available	estion.					
Acute Toxicity: Chemical Name Bismuth Nitrate, 5-Hydra	ate	CAS Number 10361-44-1	<b>Oral LD50</b> Oral LD50 Rat 4000 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined		
Carcinogenicity: Chemical Name Bismuth Nitrate, 5-Hydra	ate	CAS Number 10361-44-1	IARC 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. See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA., Reproductive data cited.						
Section 12		E	cological Data	a			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data	ial is not expected to	be harmful to the ecole	ogy. Keep out of water	ways.		
<b>Chemical Name</b> N/A		CAS Number 10361-44-1	Eco Toxicity				
Section 13		Disp	osal Informat	ion			
Disposal Methods: Waste Disposal Code(	CO		with all applicable Fed te disposer (TSD) to a	eral, State and Local re ssure compliance.	gulations. Always		
Section 14		Trans	sport Informa	tion			
Ground - DOT Proper UN1477NITRATES, INC Hydrate)Division 5.1P.C	DRGANIC, N.O.S. (B	ismuth Nitrate, 5-	<b>Air - IATA Proper</b> UN1477NITRATES Hydrate)Division 5.	S, INORGANIC, N.O.S.	(Bismuth Nitrate, 5-		
Section 15		Regu	latory Informa	ation			
TSCA Status:	All	components in this p	roduct are on the TSC	A Inventory.			

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	10361-44-1	No	No	No	No	No

#### California Prop 65:

No California Proposition 65 ingredients



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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

Ciccoury			
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