



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Bismuth Subnitrate USP

50-1145

### Section 1: Identification

**Product Name** Bismuth Subnitrate USP

**Commercial Name** Not available.

**Product Use** Not available.

**Restrictions On Use** Not available.

**Product Code** 50-1145

**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:

**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** Oxidizing solids. Category 2 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation

**CFR 1910.1200** Category 2 Specific target organ toxicity (single exposure) Target Organs - Respiratory system Category 3

**Signal Word** DANGER

**Hazard Statement(s)** May intensify fire;oxidizer. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/ other combustible materials Take any precaution to avoid mixing with combustibles

#### Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell 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 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 In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance

**Components** Bismuth Subnitrate

**% By Weight** 100

**CAS#** 1304-85-4

**Molecular Weight** 1461.98 g/mole

**Chemical Formula** Bi5O(OH)9(NO3)4

**Synonym(s)** Bismuth oxynitrate, bismuth nitrate oxide

#### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
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**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available
<b>Delayed</b>	Not available.
<b>Immediate Medical Attention</b>	
Treat symptomatically.	

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Not available

**Unsuitable Extinguishing Media**

Not available.

**Products of Combustion**

Heavy metal oxides. Nitrogen oxides (NOx). May intensify fire; oxidizer. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

**Firefighters Special Equipment and Precautions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

Personal Precautions: Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

Environmental Precautions: Should not be released into the environment. See Section 12 for additional Ecological Information.

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Methods for Containment and Clean Up: Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal

**Section 7: Handling and Storage**

Handling: Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Keep away from clothing and other combustible materials. Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Incompatible Materials. Reducing Agent. Combustible material. Strong reducing agents.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	None under normal use conditions. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
<b>Personal Protection</b>	Eye/face Protection: Tight sealing safety goggles. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: No protective equipment is needed under normal use conditions. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	White powder. Solid.		
<b>Odor</b>	Odorless.		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	500 °C / 932 °F	<b>pH</b>	3.2 @ 20°C 50 g/l aq.sol
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not applicable.
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	Not available	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	Insoluble in water		
<b>Other</b>	Molecular Formula Bi5 H9 N4 O22 Molecular Weight 1461.99		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Yes.
<b>Chemical Stability</b>	Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur
<b>Conditions to Avoid</b>	Incompatible products. Excess heat. Avoid dust formation. Combustible material.
<b>Incompatible Materials</b>	Reducing Agent, Combustible material, Strong reducing agents
<b>Hazardous Decomposition Products</b>	Heavy metal oxides, Nitrogen oxides (NOx)

**Section 11: Toxicological Information**

<b>RTECS</b>	Not available
<b>Acute Toxicity</b>	
LC50 Inhalation: LC50 > 5.07 mg/L ( Rat ) 4 h	
<b>Skin Corrosion/Irritation</b>	
Irritating to eyes, respiratory system and skin	
<b>Serious Eye Damage/Irritation</b>	
Irritating to eyes, respiratory system and skin	
<b>Respiratory or Skin Sensitization</b>	
Irritating to eyes, respiratory system and skin	
<b>Germ Cell Mutagenicity</b>	
Not available	
<b>Carcinogenicity</b>	
Not available	
<b>Reproductive Toxicity</b>	
Not available	
<b>Routes of Entry</b>	
Inhalation.	



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### Symptoms Related to Exposure

Not available

### Potential Health Effects

Not available

### Target Organ(s)

Not available

## Section 12: Ecological Information

### Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system. Freshwater

Fish: LC50: > 137 mg/L, 96h static (Danio rerio)

### Persistence and Degradability

Insoluble in water May persist

### Bioaccumulative Potential

Not available

### Mobility in Soil

Is not likely mobile in the environment due its low water solubility.

### Other Adverse Effects

Not available.

## Section 13: Disposal Considerations

### Waste Disposal

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### Disposal of Container

Not available.

### Other Considerations

Not available

## Section 14: Transport Information

### DOT Classification

UN-No UN1477 Proper Shipping Name NITRATES, INORGANIC, N.O.S. Technical Name Bismuth hydroxide nitrate oxide (Bi5(OH)9(NO3)4O) Hazard Class 5.1 Packing Group II

## Section 15: Regulatory Information

### Regulations

SARA 313 Not applicable SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Not applicable Clean Air Act Not applicable OSHA - Occupational Safety and Health Administration Not applicable CERCLA Not applicable California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. Department of Transportation Reportable Quantity (RQ): N DOT Marine Pollutant N DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product does not contain any DHS chemicals

### Other

Not available

## Section 16: Other Information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.