

LTS Research Laboratories, Inc. Safety Data Sheet Bismuth Phosphate

1. Product and Company Identification

Trade Name: Bismuth Phosphate

Chemical Formula: BiPO₄

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Not a hazardous substance

Hazard Statements: N/A

HMIS Health Ratings (0-4):

Precautionary Statements:

Health: Flammability:

Physical: 0

3. Composition

Chemical Family: Inorganic Compound

Additional Names: Bismuth orthophosphate, Bismuth (III) phosphate

0

Bismuth Phosphate (BiPO4):

Percentage: 100 wt% CAS #: 10049-01-1 EC #: 233-161-2

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Ingestion: Never induce vomiting or give anything by mouth to an unconscious

person. Seek medical attention immediately.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing.

5. Firefighting Measures Flammability: Non-flammable, except as powder Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected person Isolate spill area and provide ventilation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store it away from strong oxidizing agents, heat, and sources of ignition. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A Special Equipment: None **Respiratory Protection: Dust Respirator Protective Gloves:** Rubber gloves **Eve Protection:** Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: **Odorless**

Water Solubility: Insoluble in water

Boiling Point: N/A **Melting Point:** 350 °C Flash Point: N/A Autoignition Temperature: N/A Density: 6.32 g/cc Molecular weight: 303.95g/mol

10. Reactivity			
Stability:	Stable under recommended storage conditions		
Reacts With:	Strong oxidizing agents		
Incompatible Conditions:	Heat		
Hazardous Decomposition Products:	Metal oxide fume, oxides of phosphorus, bismuth oxides		
11. Toxicological Information			
Potential Health Effects:			
Eyes:	May cause irritation		
Skin:	May cause irritation		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	N/A		
Signs & Symptoms: Aggravated Medical Conditions:	Symptoms of chronic bismuth toxicity in humans consists of decreased appetite, weakness, rheumatic pain, diarrhea, fever, metal line on the gums, foul breathe, gingivitis, and dermatitis. Jaundice and conjunctival hemorrhage are rare, but have been reported. Bismuth nephropathy with proteinuria may occur. The kidney is the site of highest concentration with the liver being considerably lower. Bismuth does pass into the amniotic fluid and into the fetus. N/A		
Median Lethal Dose:	N/A		
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Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.		
	12. Ecological Information		
Aquatic Toxicity:	N/A		
Persistent Bioaccumulation Toxicity:	N/A		
Very Persistent, Very Bioaccumulative:	N/A		
Notes:	N/A		
	13. Disposal Considerations		
Dispose of in accordance with local, state,	national, and international regulations.		
	14. Transportation Data		
Hazardous:	N/A		
Hazard Class:	N/A		
Packing Group:	N/A		
UN Number:	N/A		
Proper Shipping Name:	N/A		

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	
	16. Other Information	

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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