

LTS Research Laboratories, Inc. Safety Data Sheet Ytterbium Phosphate

1. Product and Company Identification

Trade Name: Ytterbium Phosphate

Chemical Formula: YbPO₄

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: Danger



Hazard Statements: H314: Causes severe skin burns and eye damage

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -

continue rinsing

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Ceramic

Additional Names: Ytterbium (III) phosphate

Ytterbium phosphate (YbPO₄):

Percentage: 100 wt% CAS #: 13759-80-3 EC #: 237-346-9

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion: Give one to two glasses of water. Never give anything by mouth to an unconscious person. Seek medical attention. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective 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. Isolate spill area and provide ventilation. Use neutralizing agent. Pick up mechanically. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Handle under dry protective gas. Wash thoroughly after handling. **Storage Conditions:** Store under inert gas. Store in a cool dry place in a tightly sealed container. Keep container tightly sealed. 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. Ventilation: Provide sufficient ventilation to maintain concentration at or below 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: Nitrile rubber, 0.11 mm thick minimum. Tightly sealed goggles with full face protection. Eye Protection: Protective work clothing. Wear close-toed shoes and long **Body Protection:**

sleeves/pants.

9. Physical and Chemical Characteristics		
Color	White	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Weak	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	268.01 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Water, Strong oxidizing agents	
Incompatible Conditions:	Water/Moisture, Air, Oxidizing agents, strong bases.	
Hazardous Decomposition Products:	Phosphorus oxides, Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye damage.	
Skin:	Causes severe skin burns	
Ingestion:	Strong corrosive effect on mouth and Throat. Danger to preformation	
	of esophagus and stomach.	
Inhalation:	May cause irritation	
Chronic:	N/A - Research	
Signs & Symptoms:	N/A koratories, inc.	
Aggravated Medical Conditions:	N/A N/A	
Aggravated Medical Collditions.	IV/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	N/A	
Persistent Bioaccumulation Toxicity:	N/A	
Very Persistent, Very Bioaccumulative:	N/A	
Notes:	Do not allow material to be released to the environment without prope	
	governmental permits.	
	Do not allow undiluted product or large quantities to reach ground	
	water, water course or sewage system.	
	Avoid transfer to the environment.	

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 8 Corrosive substances

Packing Group:

UN Number: UN 3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Ytterbium Phosphate)

	15. Regulatory Information	
Con 202 Festivated Hammed	NT/A	

Sec 302 Extremely Hazardous:N/ASec 304 Reportable Quantities:N/ASec 313 Toxic Chemicals:N/A

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.

Document Last Revised: 10/04/2018