

LTS Research Laboratories, Inc. Safety Data Sheet Lithium Vanadium Phosphate

1. Product and Company Identification

Trade Name: Lithium Vanadium Phosphate

Chemical Formula: $\text{Li}_3\text{V}_2(\text{PO}_4)_3$

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: Warning



Hazard Statements: H302+H332: Harmful if swallowed or if inhaled.

H341: Suspected of causing genetic defects

H361: Suspected of damaging fertility or the unborn child

H335: May cause respiratory irritation

H372: Causes damage to organs through prolonged or repeated

exposure

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

 $P337 + P313: If \ eye \ irritation \ persists: \ Get \ medical \ advice/attention.$

P362: Take off contaminated clothing and wash before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly

closed.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 1 Physical: 1

3. Composition

Chemical Family: Ceramic Additional Names: N/A

Lithium Vanadium Phosphate (Li₃V₂(PO₄)₃):

Percentage: 100 wt% CAS #: N/A EC #: N/A

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.

Keep victim warm. Seek medical attention.

Ingestion: 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

Extinguishing Media:

Spec. Fire Fighting Procedure:

Do not use water for fires – use CO₂, sand, extinguishing powder. 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. 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. Evacuate unprotected personnel to safe

areas.

Environmental Precautions: Isolate runoff to prevent environmental pollution. Do not allow product

to enter drains, sewage system or any water course.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:**

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

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

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

> backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber gloves

Penetration time of glove material: N/A

Eye Protection: Safety glasses with side shield/ NIOSH (US) or EN 166 (EU) **Body Protection:**

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color

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

Odor: N/A Water Solubility: N/A **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A **Autoignition Temperature:** N/A Density: N/A Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong oxidizing agents

Incompatible Conditions: Oxidizing agents, Acids, Bases, Halogens, Halocarbons Hazardous Decomposition Products: Metal oxide fume, Lithium oxide, Phosphorus oxides

11. Toxicological Information Potential Health Effects:	
Skin:	May cause irritation
Ingestion:	Harmful if swallowed.
Inhalation:	May cause irritation
Chronic:	N/A.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
Notes:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	May cause long lasting harmful effect on aquatic life. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.
	13. Disposal Considerations
Dispose of in accordance with local, state,	, national, and international regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation.
Hazard Class:	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: N/A
Sec 304 Reportable Quantities: N/A
Sec 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.

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