



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

---

1. Product and Company Identification

---

Trade Name: Sodium Vanadium Phosphate  
Chemical Formula:  $\text{Na}_3\text{V}_2(\text{PO}_4)_3$   
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.  
Street: 2001 Oaks Pkwy  
City: Belmont  
State: North Carolina  
Zip Code: 28012  
Country: USA  
Tel #: +1 (704) 899 2840

24-Hour Emergency Contact: 800-424-9300 (US & Canada)  
+1-703-527-3887 (International)

---

2. Hazards Identification

---

Signal Word: Warning



Hazard Statements: H301: Toxic if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

Precautionary Statements: P261: Avoid breathing dust.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/ eye protection/ face protection.  
P302 + P352: IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.

HMIS Health Ratings (0-4):

Health: 0  
Flammability: 0  
Physical: 0

---

### 3. Composition

---

Chemical Family: Inorganic compound  
Additional Names: N/A

Sodium Vanadium Phosphate ( $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ ):  
Percentage: 0-100 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. Seek medical attention.  
Ingestion: Rinse mouth with plenty of water. Seek medical attention.  
Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.  
Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

---

### 5. Firefighting Measures

---

Flammability: Non-flammable, except as powder  
Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water.  
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. 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: Use only outdoors or in a well-ventilated area. Avoid direct contact with skin or eye, avoid breath in dust. Keep away from the fire and heat sources. Wash hands thoroughly after handling.  
Storage Conditions: Store in a cool dry place in a tightly sealed container. Recommended storage temperature: 35°C or lower. Keep away from fire or heat source. Store apart from 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
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile rubber gloves, 0.11 mm thick
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

---

## 9. Physical and Chemical Characteristics

---

Color	Black
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	1.66 g/ml
Molecular weight:	455.77 g/mol

---

## 10. Reactivity

---

Stability:	Stable under recommended storage conditions
Reacts With:	Strong oxidizing agents, Strong acids, Halogens, Ammonia
Incompatible Conditions:	Moisture and heat
Hazardous Decomposition Products:	N/A

---

## 11. Toxicological Information

---

Potential Health Effects:	
Eyes:	Causes serious eye irritation
Skin:	Causes skin irritation
Ingestion:	Toxic if swallowed
Inhalation:	May cause respiratory irritation
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/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:	N/A

---

## 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
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.

Document Last Revised: 05/22/2025

