

LTS Research Laboratories, Inc. Safety Data Sheet Lanthanum Vanadate

1. Product and Company Identification	
Trade Name:	Lanthanum Vanadate
Chemical Formula:	$LaVO_4$
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:	H302+H332: Harmful if swallowed or if inhaled H318: Causes serious eye damage
	H335: May cause respiratory irritation
	H341: Suspected of causing genetic defects
	H351: Suspected of causing genetic defects
	H361: Suspected of damaging fertility or the unborn child
	H372: Causes damage to organs through prolonged or repeated
	exposure
	H411: Toxic to aquatic life with long lasting effects
Precautionary Statements:	P202: Do not handle until all safety precautions have been read and understood
	P260: Do not breathe dust/fume/gas/mist/vapors/spray
	P264: Wash face, hands and any exposed skin thoroughly after
	handling
	P270: Do not eat, drink or smoke when using this product
	P271: Use only outdoors or in a well-ventilated area
	P273: Avoid release to the environment
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection
	P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or
	doctor/physician if you feel unwell. Rinse mouth
	P304+P340+P312: 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
	P305+P351+P338+310: IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or
	doctor/physician P308+P313: IF exposed or concerned: Get medical advice/attention

	P391: Collect spillage 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):	locus regionus nuclonus mornarionar regulations
Health:	3
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Lanthanum vanadium oxide
Lanthanum Vanadate (LaVO ₄):	
Percentage:	100 wt%
CAS #: EC #:	13939-40-7 237-717-5
EC #.	237-717-3
	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. Immediate medical attention is required.
Ingestion: Skin:	Call a physician immediately. Rinse mouth with water. Never induce vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any
	contaminated clothing. Get medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention.
	5. Firefighting Measures
Flammability:	Non-Flammable except as powder
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.
De la second 1 D	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. 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. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	0.05 mg/m ³ as V ₂ O ₅ , long-term value
Threshold Limit Value:	0.05 mg/m^3 as V ₂ O ₅ , long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9.1	sleeves/pants. Physical and Chemical Characteristics
9.1 Color	•
	Physical and Chemical Characteristics
Color	Physical and Chemical Characteristics Dark Gray
Color Form:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A
Color Form: Odor: Water Solubility:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A
Color Form: Odor:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A
Color Form: Odor: Water Solubility: Boiling Point:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A
Color Form: Odor: Water Solubility: Boiling Point: Melting Point:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A N/A
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Flash Point: Autoignition Temperature:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A N/A N/A
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A N/A N/A N/A
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A N/A A.894 gm/cc 253.84 g/mol 10. Reactivity Hygroscopic. Air sensitive. Stable under recommended storage
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A N/A A.894 gm/cc 253.84 g/mol 10. Reactivity Hygroscopic. Air sensitive. Stable under recommended storage conditions
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Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight: Stability: Reacts With:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A A.894 gm/cc 253.84 g/mol 10. Reactivity Hygroscopic. Air sensitive. Stable under recommended storage conditions Strong oxidizing agents, Strong acids, Reducing agents, Carbon dioxide
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A A.894 gm/cc 253.84 g/mol 10. Reactivity Hygroscopic. Air sensitive. Stable under recommended storage conditions Strong oxidizing agents, Strong acids, Reducing agents, Carbon dioxide Exposure to moist air or water. Combustible materials. Excess heat.
Color Form: Odor: Water Solubility: Boiling Point: Melting Point: Flash Point: Autoignition Temperature: Density: Molecular weight: Stability: Reacts With:	Physical and Chemical Characteristics Dark Gray Powder, Granules, Pellets, Sputtering target, Custom parts N/A N/A N/A N/A N/A A.894 gm/cc 253.84 g/mol 10. Reactivity Hygroscopic. Air sensitive. Stable under recommended storage conditions Strong oxidizing agents, Strong acids, Reducing agents, Carbon dioxide

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	May cause irritation
Ingestion:	Harmful if swallowed
Inhalation:	Harmful if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure
Median Lethal Dose:	LD50 Oral: >200 mg/kg for rat
Carcinogen:	IARC: 2B - Group 2B: Possibly carcinogenic to humans (Vanadium pentoxide)
	12. Ecological Information
Aquatic Toxicity:	Toxic
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Toxic to aquatic life with long lasting effects. Should not be released
	into the environment.
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	13. Disposal Considerations
Dispose of in accordance with local, state	
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	, national, and international regulations. 14. Transportation Data
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Hazardous:	, national, and international regulations. 14. Transportation Data Hazardous as powder only Poison 6
Hazard Class:	, national, and international regulations. 14. Transportation Data Hazardous as powder only Poison 6.1 Poisonous Material
Hazard Class: Packing Group:	, national, and international regulations. 14. Transportation Data Hazardous as powder only Poison 6.1 Poisonous Material III
Hazardous: Hazard Class: Packing Group: UN Number:	, national, and international regulations. 14. Transportation Data Hazardous as powder only Poison 6.1 Poisonous Material III UN3285
	, national, and international regulations. 14. Transportation Data Hazardous as powder only Poison 6.1 Poisonous Material III
Hazardous: Hazard Class: Packing Group: UN Number:	, national, and international regulations. 14. Transportation Data Hazardous as powder only Poison 6.1 Poisonous Material III UN3285
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	, national, and international regulations. 14. Transportation Data Hazardous as powder only Foison 6.1 Poisonous Material III UN3285 Vanadium compound, n.o.s. (Lanthanum Vanadate) 15. Regulatory Information Yes (Vanadium Oxide)
Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	, national, and international regulations. 14. Transportation Data Hazardous as powder only Poison 6.1 Poisonous Material III UN3285 Vanadium compound, n.o.s. (Lanthanum Vanadate) 15. Regulatory Information

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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