

LTS Research Laboratories, Inc. Safety Data Sheet Vanadium Nitride

1. Product and Company Identification

Trade Name: Vanadium nitride

Chemical Formula: VN

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+H312+H332: Harmful if swallowed, in contact with skin or if

inhaled

Precautionary Statements: P261: Avoid breathing dust/fume/vapor

P264: Wash 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

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

protection

P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P302+P352: IF ON SKIN: Wash with soap and water

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

in a position comfortable for breathing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P330: Rinse mouth

P363: Wash contaminated clothing before reuse

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 0

3. Composition	
Additional Names.	None
Vanadium nitride (VN):	
Percentage: CAS #:	100 wt%
EC#:	24646-85-3 246-382-4
EC #.	240-382-4
	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:	Seek medical attention. Do not induce vomiting.
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:	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. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal.
Engineers antal Descentions.	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
Wied /IIi. M.	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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below
v Chulation.	threshold limit.
	unconord mint.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a

backup to engineering controls. Risk assessment should be performed

to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Rubber gloves

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 N/A Odor: Water Solubility: N/A **Boiling Point:** N/A Melting Point: 2320°C Flash Point: N/A Autoignition Temperature: N/A

Density: $6.13 \text{ g/cc (at } 20^{\circ}\text{C)}$

Molecular weight: 64.95 g/mol

10. Reactivity stories inc.

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents
Incompatible Conditions: Oxidizing agents

Hazardous Decomposition Products: Nitrogen oxides (NO_x), Vanadium oxides, Toxic metal oxide fumes.

11. Toxicological Information

Potential Health Effects:

Eyes: Causes eye irritation Skin: Causes skin irritation

Ingestion: N/A Inhalation: N/A

Chronic: Vanadium compounds act chiefly as an irritant to the eyes and

respiratory tract. Exposure may cause conjunctivitis, rhinitis, and reversible irritation of the respiratory tract. More severe cases may cause bronchitis, bronchospasms and asthma like disease. May cause polycythemia, red blood cell destruction and anemia, albuminuria and hematuria, gastrointestinal disorders, nervous complaints and severe

cough.

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: Notes:	N/A Do not allow material to be released into the environment without
	proper governmental permits.
	Do not allow undiluted product or large quantities to reach ground
	water, water course or sewage system
	Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state	, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation
	Toxic 6
Hazard Class:	6.1 Toxic substances
Packing Group:	PG III
UN Number:	UN3285
Proper Shipping Name:	Vanadium compound, n.o.s. (Vanadium nitride)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	N/A
Sec 304 Reportable Quantities:	N/A
	**

16. Other Information

Yes

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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Sec 313 Toxic Chemicals: