

## LTS Research Laboratories, Inc. Safety Data Sheet Vanadium Chloride

1. Product and Company Identification		
Trade Name:	Vanadium chloride	
Chemical Formula:	VCl <sub>3</sub>	
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	
	PS	
Hazard Statements:	H302: Harmful if swallowed	
Hazard Statements.	H314: Causes severe skin burns and eye damage	
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapours/spray 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:	3	
Flammability:	0	
Physical:	1	
	3. Composition	
Chemical Family:	Salt	
Additional Names:	Vanadium tetrachloride	
Vanadium chloride (VCl <sub>3</sub> ):		
Percentage:	100 wt%	
CAS #:	7718-98-1	
EC #:	231-744-6	

4. First Aid Procedures		
General Treatment: Special Treatment: Important Symptoms:	Seek medical attention if symptoms persist. None None	
Inhalation: Ingestion: Skin:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. Wash affected area with mild soap and water. Remove any	
Eyes:	contaminated clothing. 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. Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions: Storage Conditions:	Handle under dry protective gas. Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Stroe under dry inert gas. 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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.	
8.	Exposure Controls and Personal Protection	
Permissible Exposure Limits: Threshold Limit Value:	N/A N/A	
Special Equipment: Respiratory Protection:	None 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: Eye Protection: Body Protection:	Nitrile rubber, NBR 0.11mm thick. Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long	
	sleeves/pants.	

9. F	Physical and Chemical Characteristics
Color	Purple/pink
Form:	Powder
Odor:	Acrid
Water Solubility:	Hydrolyzes
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.0 g/cc
Molecular weight:	157.30 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	Water/moisture, Light
Hazardous Decomposition Products:	Hydrogen chloride (HCl), vanadium oxides
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
Signa & Symptoma	N/A C Research
Signs & Symptoms:	N/A N/A
Aggravated Medical Conditions:	IV/A
Median Lethal Dose:	350 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

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

	14. Transportation Data	
Hazardous:	Hazardous as powder only.	
	CORROSIVE 8	
Hazard Class:	8 Corrosive substances	
Packing Group:	III	
UN Number:	UN2475	
Proper Shipping Name:	Vanadium trichloride	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 304 Reportable Quantities.		

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:

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