

LTS Research Laboratories, Inc. Safety Data Sheet Tantalum Chloride

Trade Name: Chemical Formula: Recommended Use:

Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #:

24-Hour Emergency Contact:

1. Product and Company Identification

Tantalum Chloride TaCl₅ Scientific research and development

LTS Research Laboratories, Inc. 37 Ramland Road Orangeburg New York 10962 USA 855-587-2436 / 855-lts-chem

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	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H302: Harmful if swallowed H314: Causes severe skin burns and eye damage H335: May cause respiratory irritation
Precautionary Statements:	 P260: Do not breathe dust/fume/gas/mist/vapours/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 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 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340: IF INHALED: Remove victim to fresh air and keep at ress 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 P310: Immediately call a POISON CENTER or doctor/physician P363: Wash contaminated clothing 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: Flammability: Physical:	3 0 0
	3. Composition
Chemical Family: Additional Names:	Inorganic Compound Tantalum pentachloride
Tantalum Chloride (TaCl ₅): Percentage: CAS #: EC #:	0-100 wt% 7721-01-9 231-755-6

	4. First Aid Procedures
General Treatment: Special Treatment:	Seek medical attention if symptoms persist. None
Important Symptoms:	Causes severe skin burns and eye damage
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
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, except as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	CO 2, dry chemical, dry sand, alcohol-resistant foam. 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.
Environmental Precautions:	Take care not to raise dust? In a 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
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:	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. P.	hysical and Chemical Characteristics
Color	Off-white
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	N/A
Boiling Point:	242 °C
Melting Point:	221 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	358.21 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions. Moisture sensitive.
Reacts With:	Alkalines and acids
Incompatible Conditions:	Excess heat, exposure to moist air or water, strong oxidizing agents
Hazardous Decomposition Products:	Hydrogen chloride gas, vapors, and irritating gases
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious damage
Skin:	Causes severe skin burns
Ingestion:	Harmful if swallowed
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	Ingestion may cause severe swelling, severe damage to the delicate
Siglis & Symptoms.	tissue, and danger of perforation of stomach or esophagus
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	1900 mg/kg for rat by mouth
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Do not empty into drains
	13. Disposal Considerations

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

	14. Transportation Data
Hazardous:	Hazardous as powder only.
	List with a state of the state
Hazard Class:	8
Packing Group:	II
UN Number:	UN3260
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s (Tantalum chloride)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
	No

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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