

LTS Research Laboratories, Inc. Safety Data Sheet Titanium (IV) Fluoride

1. Product and Company Identification

Trade Name: Titanium (IV) Fluoride Chemical Formula: TiF₄ Recommended Use: Scientific research and development Manufacturer/Supplier: LTS Research Laboratories, Inc. 37 Ramland Road Street: City: Orangeburg State: New York 10962 Zip Code: 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 H302 Harmful if swallowed Hazard Statements: H312 Harmful in contact with skin H332 Harmful if inhaled H314 Causes severe skin burns and eye damage **Precautionary Statements:** 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 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 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+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician P305+P351+P338+P310: 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 P363 Wash contaminated clothing before reuse 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:	N/A
	3. Composition
Chemical Family:	Salt
Additional Names:	Titanium Tetrafluoride
Titanium Tetrafluoride (TiF ₄):	
Percentage:	100 wt%
CAS #: EC #:	7783-63-3 232-017-6
	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:	Give one to two glasses of water. 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
	- Research
	5. Firefighting Measures ^{B, Inc.}
Flammability:	Non-flammable
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powde 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:	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: 2.5 mg/m^3 as TiF₄, long-term value Threshold Limit Value: 2.5 mg/m³ as TiF4, long-term value **Special Equipment:** None **Respiratory Protection: Dust Respirator** Protective Gloves: Nitrile rubber gloves Break through time: 480 mins **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 White Form: Powder, Solid Odor: N/A Water Solubility: N/A **Boiling Point:** N/A Melting Point: 377 °C Flash Point: N/A Autoignition Temperature: N/A 2.798 g/cc Density: Molecular weight: 123.89 g/mol 10. Reactivity Stable under recommended storage conditions Stability: Reacts With: Oxidizing agents, acids, bases, reducing agents, water Incompatible Conditions: Exposure to moist air or water Gaseous hydrogen fluoride (HF), Titanium/titanium oxides Hazardous Decomposition Products: 11. Toxicological Information Potential Health Effects: Eyes: Harmful when in contact with eve Skin: Harmful when in contact with skin Ingestion: Harmful if ingested Inhalation: Harmful if inhaled Chronic: N/A Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A N/A Carcinogen: 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:	Hazardous for transportation
	CORROSIVE 8
Hazard Class:	8 Corrosive
Packing Group:	Π
UN Number:	UN3260
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s (Titanium (IV) Fluoride)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	N/A
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	N/A

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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