

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.

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: Harmful if swallowed

H312: Harmful in contact with skin

H314: Causes severe skin burns and eye damage

H332: Harmful if inhaled

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 (IV) Tetrafluoride (TiF₄):

Percentage: 100 wt% CAS #: 7783-63-3 EC #: 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

5. Firefighting Measures 5.

Flammability: Non-flammable

Extinguishing Media: Do not use water for metal fires – use CO₂, sand, extinguishing powder 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: 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. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	2.5 mg/m ³ as TiF ₄ , long-term value	
Threshold Limit Value:	2.5 mg/m ³ 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. Pl	hysical 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	
Density:	2.798 g/cc	
Molecular weight:	123.89 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents, acids, bases, reducing agents, water	
Incompatible Conditions:	Exposure to moist air or water	
Hazardous Decomposition Products:	Gaseous hydrogen fluoride (HF), Titanium/titanium oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye damage	
Skin:	Cause severe skin burns	
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	
Carcinogen:	N/A	
	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



8 Corrosive **Hazard Class:**

Packing Group: II

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.

Document Last Revised: 02/10/2021