

## XI'AN FUNCTION MATERIAL GROUP CO., LTD Material 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:	XI'AN FUNCTION MATERIAL GROUP CO., LTD
Street:	No. 69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	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: Wesh contaminated clothing before reuse
	P363: Wash contaminated clothing before reuse P405: Store locked up
	P405: Store locked up P501: Dispose of contents/container in accordance with
	local/regional/national/international regulations
	iocai/regionai/nationai/methational regulations

sist.
gen if breathing is difficult.
r induce vomiting or give erson.
water. Remove any
r several minutes. Remove
Continue rinsing
O <sub>2</sub> , sand, extinguishing powder
apparatus with full protective
d eyes. See section 10 for
tive equipment specified in
pill area and provide
th efficiency particulate a closed container for disposal.
t closed container for disposal.
pollution.
led container. Store apart from n 10.
a. Wash thoroughly before off clothing or skin with
n concentration at or below

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	2.5 mg/m <sup>3</sup> as TiF <sub>4</sub> , long-term value	
Threshold Limit Value:	2.5 mg/m <sup>3</sup> 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	
Body Protection.	sleeves/pants.	
9. Phy	visical 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	
	N/A N/A	
Autoignition Temperature:		
Density: Molecular weight:	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	
	N 1 / A	
Notes:	N/A	

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

14. Transportation Data		
Hazardous:	Hazardous for transportation	
	tisor with CORROSIVE 8	
Hazard Class:	8 Corrosive	
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.

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