

# SAFETY DATA SHEET

Revision Date 25-Dec-2021

**Revision Number** 4

# 1. Identification

AC308430000; AC308430100; AC308431000

Titanium(IV) fluoride

## Cat No. :

**Product Name** 

CAS No **Synonyms** 

7783-63-3 No information available

**Recommended Use** Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

# 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

Category 4 Category 4 Category 4 Category 1 B Category 1

### Label Elements

#### Signal Word Danger

**Hazard Statements** Causes severe skin burns and eye damage Harmful if swallowed, in contact with skin or if inhaled



# **Precautionary Statements**

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

## Response

Immediately call a POISON CENTER or doctor/physician

## Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion** 

Rinse mouth

Do NOT induce vomiting

## Storage

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Titanium tetrafluoride	7783-63-3	99

4. First-aid measures					
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.				
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.				
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.				
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.				
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should				

Notes to Physician	be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically					
	5. Fire-fightir	ng measures				
Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry	chemical. Chemical foam.				
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature	Not applicable					
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available					
Specific Hazards Arising from the C Keep product and empty container aw		ignition.				
Hazardous Combustion Products Gaseous hydrogen fluoride (HF). Protective Equipment and Precaution As in any fire, wear self-contained bre protective gear.		emand, MSHA/NIOSH (approve	ed or equivalent) and full			
NFPA Health 3	Flammability 0	Instability 0	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions Environmental Precautions						
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up						
	7. Handling	and storage				
Handling		ot get in eyes, on skin, or on clot ppropriate exhaust ventilation.	hing. Handle product only in			
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents.					

# 8. Exposure controls / personal protection

# Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Titanium tetrafluoride	TWA: 2.5 mg/m <sup>3</sup>	(Vacated) TWA: 2.5 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

# 9. Physical and chemical properties

	J 1 1
Physical State	Powder Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Ti F4
Molecular Weight	123.89

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Moisture sensitive.				
Conditions to Avoid	Incompatible products. Exposure to moist air or water.				
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents				
Hazardous Decomposition Products Gaseous hydrogen fluoride (HF)					
Hazardous Polymerization	No information available.				
Hazardous Reactions	None under normal processing.				

# 11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergis Products Delayed and immediate	stic	No information available vell as chronic effects from short and long-term exposure						
Irritation		No information available						
Sensitization		No information available						
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen					
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Titanium tetrafluoride	7783-63-3	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ilable					
Reproductive Effects		No information ava	ilable.					
Developmental Effects		No information ava	ilable.					
Teratogenicity		No information ava	ilable.					
STOT - single exposure STOT - repeated exposu		None known None known						
Aspiration hazard		No information available						
Symptoms / effects,bot delayed	Symptoms / effects,both acute and delayedProduct is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion cau severe swelling, severe damage to the delicate tissue and danger of perforation				estion causes			
Endocrine Disruptor Information		No information ava	ilable					
Other Adverse Effects		The toxicological p	roperties have not	been fully investig	jated.			
12. Ecological information								
Ecotoxicity Do not empty into drains.			-					
Persistence and Degrad	lability	No information available						
<b>Bioaccumulation/ Accur</b>	mulation	No information ava	ilable.					
Mobility	bility No information available.							
		13. Dispo	sal conside	erations				
Waste Disposal Method	S	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				jional, and		
		14. Tran	sport inforr	mation				
DOT       UN-No       UN3260         Proper Shipping Name       Corrosive solid, acidic, inorganic, n.o.s.         Hazard Class       8								

Packing Group	II
<u>TDG</u> UN-No Proper Shipping Name Hazard Class	UN3260 Corrosive solid, acidic, inorganic, n.o.s. 8
Packing Group	II
UN-No Proper Shipping Name Hazard Class Packing Group	UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.* 8 II
IMDG/IMO UN-No Proper Shipping Name	UN3260 Corrosive solid, acidic, inorganic, n.o.s.
Hazard Class Packing Group	8 
	15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Titanium tetrafluoride	7783-63-3	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Titanium tetrafluoride	7783-63-3	-		232-017-6	-	Х	Х	-	-	KE-33924

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island			
Titanium tetrafluoride	-	Х	-	-	Х			
U.S. Department of Trans Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Polluta	N N							
U.S. Department of Home Security	eland This pro	This product does not contain any DHS chemicals.						
Other International Regu	lations							
Mexico - Grade	No infor	No information available						

Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Titanium tetrafluoride	7783-63-3	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Titanium tetrafluoride	7783-63-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Revision Date Print Date Revision Summary	25-Dec-2021 25-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**