

LTS Research Laboratories, Inc. Safety Data Sheet Titanium Oxide

1. Product and Company Identification

Trade Name: Titanium oxide

Chemical Formula: Ti_2O_3 , Ti_3O_5 , TiO, TiO_7 , TiO_3 , Ti_5O_7 , TiO_x

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

Emergency Contact 800-424-9300 (US & Canada) (ChemTrec) Tel #: +1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H351 Suspected of causing cancer

Precautionary Statements: P281 Use personal protective equipment as required

P201 Obtain special instructions before use

P308+P313 If exposed or concerned: Get medical advice/attention

P405 Store locked up

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

HMIS Health Ratings (0-4):

Health: 1
Flammability: 0
Reactivity: 0

3. Composition

Chemical Family: Ceramic

Additional Names: Titanium suboxide, Titanium sesquioxide, Titanium monoxide, Titania,

Titanium(III) oxide, Titanium(II) oxide

Titanium oxide (TiO₂):

Percentage: 100 wt% CAS #: 13463-67-7 EC #: 236-675-5

Titanium oxide (Ti_2O_3) :

CAS #: 1344-54-3

Titanium oxide (Ti_3O_5) :

CAS#: 12065-65-5

Titanium oxide (Ti_4O_7, TiO_x) :

CAS#: 12143-55-4

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 and induce vomiting. Never induce of the state of

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 ten minutes.

5. Fire and explosion hazards data

Flammability: Non-flammable, except as powder

Flash Point: N/A
Autoignition Temperature: N/A

Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of

fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes.

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.

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

TLV.

8. Exposure Controls / Personal Protection

Permissible Exposure Limits: None Threshold Limit Value: None

Special Equipment: None

Respiratory Protection: Dust Respirator, NIOSH approved

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses / goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics		
Color	White or golden or black or purple/blue	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Density:	N/A	
Molecular weight:	N/A	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	None	
Haz. Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	Low toxicity by ingestion	
Inhalation:	May cause irritation	
Chronic:	N/A	
	Research	
Routes of Entry:	None None	
Target Organs:	N/A	
Signs & Symptoms of Exposure:	N/A	
Medical Conditions		
Aggravated by Exposure:	N/A	
Median Lethal Dose:	None	
Carcinogen:	Suspected of causing cancer	
	12. Ecological Information	
Ecological data is not available.		
	13. Disposal Considerations	
Dispose of in accordance with local, st	ate and federal regulations.	
	14. Transportation Data	
Hazardous:	Not hazardous for transportation	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
Proper Shipping Name:	N/A	

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	
	16. Other information	

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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