

LTS Research Laboratories, Inc. Safety Data Sheet Titanium Iodide

1. Product and Company Identification	
Trade Name:	Titanium Iodide
Chemical Formula:	TiI_4
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:	H303: May be harmful if swallowed
	H314: Causes severe skin burns and eye damage
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapours/spray P264; Wash face, hands and any exposed skin thoroughly after handling
	P280: Wear protective gloves/protective clothing/eye protection/ face protection
	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: IF INHALED: Remove victim to fresh air and keep at res in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –
	continue rinsing P310: 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/national/international regulations
HMIS Health Ratings (0-4):	
HMIS Health Ratings (0-4): Health:	3
HMIS Health Ratings (0-4): Health: Flammability:	3 0

3. Composition	
Chemical Family: Additional Names:	Metal halide Titanium (IV) iodide, titanium tetraiodide
Auditional Mames.	Thanium (IV) louide, thanium tetralouide
Titanium Iodide (TiI ₄):	
Percentage:	100 wt%
CAS #:	7720-83-4
EC #:	231-754-0
	4. First Aid Procedures
General Treatment:	Seek immediate medical attention. Show this safety data sheet to the
	doctor in attendance. Move out of dangerous area.
Special Treatment:	N/A
Important Symptoms:	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 be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of
	perforation.
Inhalation:	Seek immediate medical attention Remove victim to fresh air.
	Supply oxygen if breathing is difficult.
Ingestion:	Seek immediate medical attention. Do not induce vomiting.
Skin:	Seek immediate medical attention. Wash affected area with soap and
	plenty of water. Remove contaminated clothing and shoes immediately
Eyes:	Seek immediate medical attention. Flush eyes with water, blinking
	often for several minutes. Remove contact lenses if present and easy to
	do. Continue rinsing eyes during transport to hospital.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	Alcohol-resistant foam, carbon dioxide (CO_2) , dry chemical, dry sand
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.
Environmental Processiance	Take care not to raise dust. Do not let this chemical enter drains.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

7. Handling and Storage	
Handling Conditions:	Wash thoroughly after handling. Wear personal protective equipment. Avoid inhalation and ingestion. Avoid dust formation. Do not let it ge in eyes, on skin or on clothing. Do not ingest. Do not breathe dust. Ensure adequate ventilation where dust is formed.
Storage Conditions:	Store in a cool dry and well-ventilated place in a tightly sealed container. Keep under nitrogen. Store away from direct sunlight and corrosives. Air, moisture and light sensitive.
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 enough ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Nitrile rubber gloves
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	Dark brown, red or black
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Pungent
Water Solubility:	N/A
Boiling Point Range:	377 °C at 760 mmHg
Melting Point Range:	150 °C
Flash Point:	>110 °C
Autoignition Temperature:	N/A
Density:	4.37 g/cm^3
Molecular weight:	555.48 g/mol

10. Reactivity

Stability:
Reacts With:
Incompatible Conditions:
Hazardous Decomposition Products:

Stable under recommended storage conditions Oxidizing agents Moisture, light, air Metal oxide fume, titanium oxides

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes severe eye damage
Skin:	Causes severe skin burns
Ingestion:	May be harmful if swallowed
Inhalation:	May cause irritation
Chronic:	N/A
Signs & Symptoms:	Cough, shortness of breath, headache, nausea, vomiting. Possible perforation of stomach or esophagus should be investigated.
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

	12. Ecological information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	Soluble in water. Persistence is unlikely based on information
	available.
Very Persistent, Very Bio accumulative:	N/A
Notes:	Do not empty into drains.

13. Disposal Considerations

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

14. Transportation Data

Hazardous:

Hazardous for Transportation



Hazard Class: Packing Group: UN Number: Proper Shipping Name:

I UN3260 Corrosive solid, acidic, inorganic, n.o.s. (Titanium Iodide)

	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.

Document Last Revised:

09/13/2019

