

LTS Research Laboratories, Inc. Safety Data Sheet Titanium Sulfide

1. Product and Company Identification

Trade Name: Titanium sulfide

Chemical Formula: TiS₂

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: Warning



Hazard Statements: H261: In contact with water releases flammable gas

H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P231+P232: Handle under inert gas. Protect from moisture

P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 2 Physical: 2

	3. Composition		
Chemical Family: Additional Names:	Ceramic Titanium(IV) sulfide, Titanium sulphide, Titanium disulfide, Titanium disulphide		
Titanium sulfide (TiS ₂):			
Percentage:	100 wt.%		
CAS #: EC #:	12039-13-3 234-883-0		
	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:	Seek medical attention.		
Skin:	Wash affected area with mild soap and water. Remove any		
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove		
Lycs.	contact lenses if present and easy to do. Continue rinsing		
	5. Firefighting Measures		
Flammability:	Flammable		
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder. 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: Environmental Precautions:	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. Isolate runoff to prevent environmental pollution.		
	Isolate fulloff 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		
Work/Hygianic Maintananca	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:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9. P	Physical and Chemical Characteristics
Color	Green
Form:	Powder, Granules
Odor:	Like rotten eggs
Water Solubility:	Reacts
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.2 g/cc
Molecular weight:	112.00 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts with:	Acids
Incompatible Conditions/Materials:	Oxidizing agents, Acids
Hazardous Decomposition Products:	Hydrogen sulfide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Titanium compounds are considered physiologically inert. There are no
	reported cases in the literature where titanium as such has caused
	human intoxication
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A
	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent Very Rioaccumulative	No

No

N/A

Very Persistent, Very Bioaccumulative:

Notes:

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 4.2 Spontaneously combustible materials

Packing Group: III UN Number: UN3174

Proper Shipping Name: Titanium disulphide

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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