

## LTS Research Laboratories, Inc. Safety Data Sheet Titanium Hydride

	1. Product and Company Identification
Trade Name:	Titanium Hydride
Chemical Formula:	TiH <sub>2</sub>
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)
<u> </u>	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H228: Flammable solid
Precautionary Statements:	H228: Flammable solid P210: Keep away from heat/sparks/open flames/hot surfaces – No
	smoking P280: Wear protective gloves/protective clothing/eye protection/face
	protection
	P240: Ground/bond container and receiving equipment
	P241: Use explosion-proof electrical/ventilating/light/equipment
	P370+P378: In case of fire: Use sand, CO2, or powdered extinguishing
	agent for extinction
HMIS Health Ratings (0-4):	
Health:	1
Flammability:	3
Physical:	2
	3. Composition
Chemical Family:	Inorganic Compound
Additional Names:	Titanium (II) hydride
Titanium hydride (TiH <sub>2</sub> ):	
Percentage:	100 wt%
	7704-98-5
CAS #: EC #:	231-726-8

	4. First Aid Procedures
General Treatment: Special Treatment: Important Symptoms:	Seek medical attention if symptoms persist. None None
Inhalation: Ingestion:	Remove victim to fresh air. Supply oxygen if breathing is difficult. 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 several minutes. Remove 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 <sub>2</sub> , 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:	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. Keep away from ignition sources.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry, protective gas. Protect against electrostatic charges. Ensure good ventilation at the workplace. Wash thoroughly after handling.
Storage Conditions:	Store under dry protective gas in a cool dry place in a tightly sealed container. Store apart from 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: Threshold Limit Value:	N/A N/A
Special Equipment: Respiratory Protection: Protective Gloves: Eye Protection: Body Protection:	None Dust Respirator Rubber gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. F	Physical and Chemical Characteristics
Color	N/A
Form:	Powder
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	450 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.9 g/cc
Molecular weight:	49.88 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, water/moisture, air, oxidizing agents
Incompatible Conditions:	Air/moisture, oxidizing environments
Hazardous Decomposition Products:	Hydrogen, Titanium oxides, Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/Å
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Signs & Symptoms:	N/A koratorias, inc.
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
Notes:	Do not allow material to be released to the environment without prope
	governmental permits
	Do not allow undiluted product or large quantities to reach ground
	water, water course or sewage system.
	Avoid transfer into the environment
	13. Disposal Considerations

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

14. Transportation Data			
Hazardous:	Hazardous for transportation		
	ELAMIMABLE SOLID		
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives		
Packing Group:	PG II		
UN Number:	UN1871		
Proper Shipping Name:	Titanium hydride		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	N/A		
Sec 304 Reportable Quantities:	N/A		
Sec 313 Toxic Chemicals:	N/A		
	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:

12/14/2017