

## LTS Research Laboratories, Inc. Safety Data Sheet Terbium

Terbium
1 Gruffulli
Tb
Scientific research and development
LTS Research Laboratories, Inc.
37 Ramland Road
Orangeburg
New York
10962
USA
855-587-2436 / 855-lts-chem
800-424-9300 (US & Canada) +1-703-527-3887 (International)
2. Hazards Identification
Danger
<u>()</u>
H228: Flammable solid
H260: In contact with water releases flammable gases which may ignit
spontaneously
P210: Keep away from heat/sparks/open flames/hot surfaces – No
smoking
P231+P232: Handle under inert gas. Protect from moisture
P280: Wear protective gloves/protective clothing/eye protection/face
protection
P370+P378: In case of fire: Use CO <sub>2</sub> , sand, or extinguishing powder for extinction
P402+P404: Store in a dry place. Store in a closed container
P501: Dispose of contents/container in accordance with local/regional/national/international regulations
local/regional/national/international regulations
Powder/Pieces Bulk
1 0
3 0
2 0
3. Composition
Lanthanide
None
100
100 wt%
7440-27-9
231-137-6

	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
E.	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
	Non-flammable, except as powder/pieces
Extinguishing Media:	Do not use water for metal fires – use CO <sub>2</sub> , sand, extinguishing powder
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. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
Work/II. Signia Mainte	inert gas. 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
, entitution.	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	Silver grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Contact with water releases flammable gases for powder/pieces
Boiling Point:	3230 °C
Melting Point:	1356 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	8.27 g/cc
Molecular weight:	158.9254 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Water, Oxidizing agents
Incompatible Conditions:	Water, Moisture
Hazardous Decomposition Products:	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:	Lanthanons can cause delayed blood clotting leading to hemorrhages Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage.
Signa & Sumptoma	N/A
Signs & Symptoms:	
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 Bioaccumulative:	No
Notes:	N/A
	13. Disposal Considerations

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

14. Transportation Data		
Hazardous:	As powder:	
Hazard Class:	4.1 Flammable solids	
Packing Group:	II	
UN Number:	UN3089	
Proper Shipping Name:	Metal powders, flammable, n.o.s. (terbium)	
Hazardous:	As pieces:	
Hazard Class:	4.1 Flammable solids	
Packing Group:	II	
UN Number:	UN3178	
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (terbium)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	
	16. Other Information	
given is based on our knowledge of th	in conjunction with technical sheets. It does not replace them. The information is product, at the time of publication. It is given in good faith. The attention of incurred by using the product for any other purpose other than that for which it	

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:

07/02/2015