

LTS Research Laboratories, Inc. Safety Data Sheet Ytterbium Oxide

	1. Product and Company Identification		
Trade Name:	Ytterbium oxide		
Chemical Formula:	Yb ₂ O ₃		
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:	None		
Hazard Statements:	None		
Precautionary Statements:	None		
	100 C		
HMIS Health Ratings (0-4):			
Health:	A Besearch		
Flammability:	0 I i i i i i i i i i i i i i i i i i i		
Physical:	1		
	3. Composition		
Chemical Family:	Ceramic		
Additional Names:	Ytterbium (III) oxide, Ytterbia, Diytterbium trioxide,		
	Ytterbium sesquioxide		
Ytterbium oxide (Yb ₂ O ₃):			
Percentage:	100 wt%		
CAS #:	1314-37-0		
EC #:	215-234-0		
	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.		
•	Seek immediate medical attention.		
Ingestion:	Clean mouth with water and drink plenty of water. Seek immediate		
	medical attention.		
Skin:	Wash affected area with mild soap and water. Remove any		
E.	contaminated clothing. Seek immediate medical attention.		
Eyes:	Flush eyes with water, blinking often for several minutes. Remove		
	contact lenses if present and easy to do. Continue rinsing. Seek		
	immediate medical attention.		

Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Contraction District Contractions	surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective
Spec. Fire Fighting Procedure:	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 Processions	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling. Avoid dust formation.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
	materials and conditions listed in section 10. Store under an inert
	atmosphere. Protect from moisture.
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
vontinution.	threshold limit,Research
	ter and terratories, Inc.
8. H	Exposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a
	backup to engineering controls. Risk assessment should be performed
	to determine if purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
Protective Gloves:	standards. Nitrile rubber, NBR 0.11mm thick.
Penetration time of glove material:	N/A
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	2346 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	9.2 g/cc
Molecular weight:	394.08 g/mol

	10. Reactivity
Stability:	Hygroscopic
Reacts With:	Strong oxidizing incompatible products. Excess heat. Avoid dust
	formation. Exposure to moist air or water.
Incompatible Conditions:	Strong oxidizing agents
Hazardous Decomposition Products:	None under normal use conditions
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/A
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 Bioaccumulative:	No Besperch
Notes:	N/A Stationatories, Inc.
	13. Disposal Considerations
Dispose of in accordance with local, state, a	national, and international 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

No N/A No

Sec	302 Extremely Hazardous:
Sec	304 Reportable Quantities:
Sec	313 Toxic Chemicals:

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:

12/22/2020

