

LTS Research Laboratories, Inc. Safety Data Sheet Thallium Oxide

1. Product and Company Identification		
Trade Name:	Thallium Oxide	
Chemical Formula:	Tl_2O_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:	Danger	
Hazard Statements:	H300+H330: Fatal if swallowed or if inhaled H373: May cause damage to organs through prolonged or repeated exposure H411: Toxic to aquatic life with long lasting effects	
Precautionary Statements:	H411: Toxic to aquatic life with long lasting effects P260: Do not breathe dust/fume/gas/mist/vapors/spray	
reconditionally statements.	P264: Wash skin thoroughly after handling	
	P270: Do not eat, drink or smoke when using this product	
	P271: Use only outdoors or in a well-ventilated area	
	P273: Avoid release to the environment	
	P284: Wear respiratory protection	
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce	
	vomiting	
	P304+P340: IF INHALED: Remove victim to fresh air and keep at res	
	in a position comfortable for breathing	
	P314: Get Medical advice/attention if you feel unwell	
	P391: Collect spillage	
	P403+P233: Store in a well ventilated place. Keep container tightly	
	closed	
	P405: Store locked up	
	P501: Dispose of contents/container in accordance with local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	3	
Flammability:	0	
Physical:	1	
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3. Composition		
Chemical Family:	Metal Oxide	
Additional Names:	Thallium(III) Oxide	
Thallium Oxide (Tl ₂ O ₃)		
Percentage:	100 wt%	
CAS #:	1314-32-5	
EC #:	215-229-3	
	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 medical attention.	
Ingestion:	Rinse mouth with water. Seek medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
_	contaminated clothing. Seek medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medica	
	attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable, except as powder.	
Extinguishing Media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.	
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 Precautions:	Take care not to raise dust. Isolate runoff 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/Uncionia Maintenance	materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before	
Work/Hygienic Maintenance:	eating and smoking. Do not blow dust off clothing or skin with	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	

8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A Special Equipment: None Use a recommended dust respirator or mask. Only use equipment tested **Respiratory Protection:** and approved under appropriate government standards. **Protective Gloves:** 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 N/A Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: N/A Water Solubility: N/A **Boiling Point:** N/A Melting Point: 717 °C Flash Point: N/A Autoignition Temperature: N/A Density: 10.19 g/cm³ Molecular weight: 424.07 g/mol 10. Reactivity Stability: Stable under recommended storage conditions Reacts With: N/A pratorias, Inc. **Incompatible Conditions:** None Hazardous Decomposition Products: **Thallium Oxides** 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Fatal if ingested Ingestion: Inhalation: Fatal if swallowed Chronic: N/A Signs & Symptoms: Stomach irregularities Aggravated Medical Conditions: N/A Median Lethal Dose: LD50 Oral - Rat - 44 mg/kg Carcinogen: N/A 12. Ecological Information Aquatic Toxicity: High with long lasting effects Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A N/A Notes:

13. Disposal Considerations

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

	14. Transportation Data	
Hazardous:	Hazardous for transportation	
	POISON 6	
Hazard Class:	6.1 Toxic substances	
Packing Group:	II	
UN Number:	UN1707	
Proper Shipping Name:	Thallium compounds, n.o.s. (Thallium Oxide)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	100 lbs	
Sec 313 Toxic Chemicals:	Yes	

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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