



Lithium Tantalate

Material Safety Data Sheet

1. Chemical Product and Company Identification

Trade Name: Lithium Tantalate, Black Lithium Tantalate
Chemical Name: LiTa_2O_5
Synonyms: LT, LT SAW Wafer, LT Crystal Boule, Black LT
Manufacture: Sawyer Technical Materials
1601 Airport Rd, Conroe, Texas 77301, USA
Telephone:
Emergency: 800.262.8200
Information: 936.756.8886
Date Revised: October 23, 2006

2. Composition / Information on Ingredients

<u>Components</u>	<u>CAS #</u>	<u>Exposure Limits</u>	<u>Percent by weight</u>
LiTa_2O_5	12031-66-2	None established	99.99%

Chemical Family: Mineral

NFPA Rating: Health 1 Fire 0 Reactivity 0

3. Physical / Chemical Characteristics

Boiling Point: N/A Specific Gravity (H₂O = 1) 7.45
Vapor Density: N/A Melting Point: 1650 °C
Vapor Pressure: N/A % Volatile by Volume: 0
Solubility in Water: Insoluble Evaporation Rate: 0

Appearance and Odor: No odor. Colorless to yellow, black, or green.

4. Fire Data

Flash Point: None Established
Flammable Limits: N/A
Extinguishing Media: Any suited to the surrounding material.
Unusual Fire or Explosion Hazards: No
Special Firefighting Procedures: No

Material Safety Data Sheet

Lithium Tantalate

5. Reactivity Data

Stability:	Stable
Incompatibilities (materials to avoid):	Strong Alkalis
Hazardous Decomposition or byproducts:	None Established
Hazardous Polymerization:	Will not occur
Other conditions to avoid:	None Established

6. Health Data

Routes of Entry:

Inhalation: There are no known adverse effects of exposure to lithium tantalate. Exposure to airborne dust should be minimized. For acute cases of inhalation, remove to fresh air and consult a physician.

Eyes: May irritate. Wash eyes immediately with large amounts of water or normal saline, occasionally lifting the upper and lower eye lids, until no evidence of dust remains. Consult physician if irritation persists.

Ingestion: If ingested in large quantities seek medical attention.

Skin Contact: It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention if needed. Broken pieces have sharp edges. Handle with care and wear protective gloves if necessary. Wash off dust with soap and water.

Skin Absorption:	No	OSHA Carcinogen:	No
		NTP	No
		IARC	No

Note: We do not consider this product, in the form that it is sold, to constitute a health hazard.

7. Handling and Use

Steps to be taken in case material is spilled or released.

Collect spilled materials in appropriate container for disposal. Avoid generating dust. Provide cleanup personnel with protection against inhalation and eye contact of dust.

Waste Disposal Method

Solid / Particulate - Sell as scrap and/or follow Federal, State, and Local disposal regulations.

Handling and Storage

Lithium Tantalate is a dense material. Shipping and transfer containers will be heavy. Broken or fractured material will have sharp edges. Handle material appropriately.

Material Safety Data Sheet
Lithium Tantalate

8. Control Measures

- Ventilation Requirements: Provide local exhaust ventilation system. Ensure compliance with applicable dust particulate exposure limits. Under conditions of frequent or heavy exposure, respiratory protection may be needed.
- Respiratory: If needed, wear a NIOSH / MSHA approved air-purifying respirator (APR) for particulate materials.
- Eyes: Safety glasses, face shield, or goggles must be worn.
- Skin: Cloth or rubber gloves may be worn to avoid cuts and abrasions.
- Other Control Measures: Quick-drench eyewash station.