

## LTS Research Laboratories, Inc. Safety Data Sheet Potassium Tantalum Oxide

## 1. Product and Company Identification

Trade Name: Potassium Tantalum Oxide

Chemical Formula: KTaO<sub>3</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont State: North Carolina

Zip Code: 28012 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: Warning



Hazard Statements: H319: Causes serious eye irritation

H335: May cause respiratory irritation

Precautionary Statements: P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

P264: Wash skin thoroughly after handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/ eye protection/ face protection P304 + P340: IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P312: Call a POISON CENTER/doctor if you feel unwell

P337 + P313: If eye irritation persists: Get medical advice/ attention 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: 1
Flammability: 0
Physical: 0

3. Composition Chemical Family: Ceramic Additional Names: Potassium tantalate Potassium Tantalum Oxide (KTaO<sub>3</sub>) Percentage: 100 wt% CAS #: 12067-57-1 EC #: N/A 4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. **Special Treatment:** None **Important Symptoms:** N/A Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. Ingestion: Rinse mouth with water. Do not induce vomiting. 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 medical attention. 5. Firefighting Measures Flammability: Non-flammable, except as powder No special restrictions – use suitable extinguishing agent for **Extinguishing Media:** surrounding material and type of fire. 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 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. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:** 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:	None	
Threshold Limit Value:	None	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator	
Protective Gloves:	Rubber gloves	
	Check gloves prior to each use	
Eye Protection:	Safety glasses or goggles	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
	sleeves/pants.	
9. Pl	hysical and Chemical Characteristics	
Color	White	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	N/A	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A	
Molecular weight:	268.04 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Strong acids, Strong bases	
Incompatible Conditions:	None	
Hazardous Decomposition Products:	Metal oxide fume, Potassium oxides, Tantalum Oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye 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:	N/A	
Very Persistent, Very Bioaccumulative:	N/A	
Notes:	N/A	

13. Disposal Considerations

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

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	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	

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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