SECTION 1  PRODUCT AND COMPANY INFORMATION

PRODUCT NAME:  Lithium tantalum oxide
PRODUCT NUMBER:  2374
CAS NUMBER:  12031-66-2
SYNONYMS:  Lithium tantalate, lithium metatantalate

MANUFACTURER:
Prochem, Inc.
826 Roosevelt Road
Rockford, IL  61109

PHONE:  815-398-1788
FAX:  815-398-1810
TOLL FREE:  800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC:  1-800-424-9300

SECTION 2  HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE
Not a dangerous substance according to the GHS

HMIS CLASSIFICATION:
Health: 1  Flammability: 0  Reactivity: 0

NFPA RATING:
Health: 1  Fire: 0  Reactivity Hazard: 0

EYE CONTACT: May cause redness, itching, watering, and inflammation.
SKIN CONTACT: May cause redness, itching, and inflammation.

SECTION 2  HAZARDS IDENTIFICATION (Cont.)

INHALATION:  May cause a red, dry, burning throat, or inflammation to the respiratory tract.
INGESTION:  May cause irritation to the esophagus, nausea, muscular twitches, and mental confusion.

SECTION 3  COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  LiTaO₃
Molecular Weight:  235.88

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
<th>ACGIH (TWA)</th>
<th>OSHA (PEL)</th>
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<tbody>
<tr>
<td>Lithium tantalate</td>
<td>12031-66-2</td>
<td>100</td>
<td>5 mg(Ta)/m³</td>
<td>5 mg(Ta)/m³</td>
</tr>
</tbody>
</table>
SECTION 4  FIRST AID MEASURES (Cont.)

EYE EXPOSURE: Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention.

SKIN EXPOSURE: Remove contaminated clothing from affected area, brush material off skin, wash affected area with mild soap and water; seek medical attention.

INHALATION: Remove victim to fresh air. Keep victim calm. Give oxygen if breathing is difficult and seek medical attention.

INGESTION: Give 1-2 glasses of water. Never give anything by mouth or induce vomiting to an unconscious person. Seek medical attention.

SECTION 5  FIREFIGHTING MEASURES

FLASH POINT: Product not flammable
AUTO IGNITION TEMPERATURE: Not applicable
EXPLOSION LIMITS: Not applicable
EXTINGUISHING MEDIUM: Use suitable extinguishing media for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Metal oxide fume

SECTION 6  ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear approved personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains or allow to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and shovel without creating dust. Place in proper container for disposal.

SECTION 7  HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Avoid formation of dust. Ensure adequate ventilation.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed and store in a dry and well-ventilated place.

SECTION 8  EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, safety goggles, or face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Off white solid
MOLECULAR WEIGHT: 235.88
BOILING POINT: No data available
MELTING POINT: 1650° C
SPECIFIC GRAVITY: 7.46 gm/ml
VAPOR PRESSURE: Not applicable
SOLUBILITY: Insoluble

SECTION 10  STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: No data available
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Metal oxide fume
SECTION 11  TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen by IARC, ACGIH, NTP, and OSHA.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12  ECOLOGICAL DATA

No information available

SECTION 13  DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14  TRANSPORTATION DATA

Non-hazardous material

SECTION 15  REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 313 COMPONENTS: This material does not contain any chemical components with know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 302 COMPONENTS: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 311/312 HAZARDS: Acute Health Hazard
MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right To Know Act.
 PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Lithium tantalum trioxide
 NEW JERSEY RIGHT TO KNOW COMPONENTS: Lithium tantalum trioxide
 CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16  OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.
DATE PREPARED: 05/14