MATERIAL SAFETY DATA SHEET
24 Hr. Emergency Phone No: Chem-Trec 1-800-424-9300

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SECTION 1  Product Identification

CHEMICAL NAME: LITHIUM NIOBATE
CAS#: 12031-63-9
FORMULA: LiNbO₃
EC NO: 234-755-4
SYNONYM: Niobium Lithium Oxide

SECTION 2  Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>INGREDIENT:</th>
<th>CAS#</th>
<th>%</th>
<th>ACGIH (TWA)</th>
<th>OSHA (PEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title Compound</td>
<td>12031-63-9</td>
<td>100</td>
<td>Not Determined</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3  Hazards Identification

EMERGENCY OVERVIEW: Dust may cause irritation to the respiratory tract skin and eyes.
PRIMARY ROUTES OF EXPOSURE: Contact with skin and eyes. Inhalation of dust.
EYE CONTACT: Causes irritation of the eyes.
SKIN CONTACT: May cause mild irritation and redness.
INHALATION: May cause irritation to the respiratory tract.
INGESTION: No Data
ACUTE HEALTH EFFECTS: No Data
CHRONIC HEALTH EFFECTS: No Data

SECTION 4  First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.
SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation, burns, or redness persist
INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.
INGESTION: No specific data available. Seek medical assistance immediately. Keep the victim calm.
SECTION 5  Firefighting Measures

FLASH POINT: not applicable
AUTOIGNITION TEMPERATURE: no data
EXPLOSION LIMITS: no data
EXTINGUISHING MEDIUM: None. Material is non-flammable.
SPECIAL FIREFIGHTING PROCEDURES: No special fire-fighting procedures required.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: None
UNUSUAL FIRE OR EXPLOSION HAZARDS: None known

SECTION 6  Accidental Release Measures

SPILL AND LEAK PROCEDURES: Wear appropriate respiratory and protective equipment to avoid exposure with material, sweep up avoiding raising dust and place in a well-marked container for disposal.

SECTION 7  Handling and Storage

HANDLING AND STORAGE: Store in a tightly sealed container. Store at room temperature. Avoid contact with direct sunlight and moisture.

SECTION 8  Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/ side shields, or safety goggles, faceshield when handling a chemicals substance in the laboratory.
SKIN PROTECTION: Chemical-resistant.
VENTILATION: If possible, handle the material in a local exhaust hood.
RESPIRATOR: Where adequate ventilation is not available a dust respirator should be worn.
ADDITIONAL PROTECTION: Protection to avoid contact with skin, eyes, clothing.
Safety shower, eyewash in area. Use in a controlled environment. Do not eat, drink or smoke in area.
Irritant. Avoid contact with skin, eyes. Do not breathe dust. Causes irritation to nose, throat, upper respiratory tract.
SECTION 9  Physical and Chemical Properties

COLOR AND FORM: White powder
MOLECULAR WEIGHT: 147.84
MELTING POINT (DEG. C.): none
BOILING POINT: no data
VAPOR PRESSURE: Not applicable
VAPOR DENSITY (AIR = 1): Not applicable
% VOLATILE BY VOLUME: Non volatile
SPECIFIC GRAVITY: no date
SOLUBILITY IN WATER: Soluble

SECTION 10  Stability and Reactivity

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Contact with moisture.
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Nature of decomposition products unknown.

SECTION 11  Toxicological Information

RTECS DATA: #QT9800000
CARCINOGENIC EFFECTS: No Data
MUTAGENIC EFFECTS: No Data
TETRATGENIC EFFECTS: No Data

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

SECTION 12  Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13  Disposal Considerations

DISPOSAL: Dispose of in accordance to local state and federal regulations.

SECTION 14  Transportation Information

Non-hazardous material  Non-regulated material
SECTION 15  Regulatory Information

TSCA: Listed in TSCA inventory
SARA (TITLE 313):  No information found.

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:  09/04