

Material Safety Data Sheet: Lithium Niobate Page 1 of 2

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Section 1: Product Identification

Trade Name: Lithium Niobate
Chemical Nature: Inorganic Oxide

Synonyms: LN
Formula: LiNbO₃

OSHA PEL: None Established ACGIH TLV: None Established
EPA EPCRA: § 302 TPQ: N/A, § 304 RQ: N/A, § 313 Report: N/A
HMIS Ratings: Health 0 Flammability 0 Reactivity 0

Section 2: Composition/Ingredients

<u>INGREDIENT</u>	<u>CAS #</u>	<u>PERCENT</u>
lithium niobate	12031-63-9	100

Section 3: Physical/Chemical Data

Boiling Point: >3000° F Specific Gravity (H₂O = 1): 4.64
Vapor Pressure (mm Hg): 0 Vapor Density (Air = 1): N/A
% Volatile by Volume: 0 Evaporation Rate (Butyl Acetate = 1): 0
Solubility in Water: Insoluble
Appearance and Odor: Glass like appearance with no odor.

Section 4: Fire and Explosion Hazard Data

Flash Point: N/A Flammable Limits: Nonflammable LEL: N/A UEL: N/A
Extinguishing Media: N/A Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: LN is a pyroelectric material, which will develop a static charge, and may crack, with rapid temperature changes.

Section 5: Reactivity Data

Stability: Stable Conditions to Avoid: N/A
Incompatibility (Conditions to Avoid): None known
Hazardous Polymerization: Will not occur Conditions to Avoid: N/A
Hazardous Decomposition Products: None

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Section 6: Health Hazard Data

Routes of Entry (Under Normal Conditions of Use):

Inhalation - No Skin - No Ingestion - No

Health Hazards (Acute and Chronic): No known applicable Information

Carcinogenicity:

NTP - Not Listed IARC Monograph - No OSHA Regulated - No

Signs and Symptoms of Overexposure: No known applicable information

Medical Conditions Generally Aggravated by Overexposure: No known applicable information

Emergency and First Aid Procedures: Treat symptomatically

Section 7: Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Non Toxic; Treat as ordinary waste

Waste Disposal Method: Non Toxic; Treat as ordinary waste

Other Precautions: If broken, material should be treated as with ordinary glass; it is very sharp

Section 8: Control Measures

Respiratory Protection: No respiratory protection required under normal conditions of use

Ventilation: No special ventilation requirements anticipated under normal conditions of use

Protective Gloves: Wear cut-resistant gloves if necessary

Eye Protection: Wear approved eye protection if necessary

Other Protective Clothing or Equipment: No special clothing or equipment required under normal conditions of use

Work/Hygienic Practices: No special work/hygienic practices required under normal conditions of use

MSDS Prepared By: Albert W. Toy, Environment, Health & Safety Manager

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