1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Lithium Titanate

Chemical Formula: Li_2TiO_3

Manufacturer Item Number: LI-2940

Manufacturer:
Lorad Chemical Corporation
1200 19th Street North
Saint Petersburg, Florida, 33713
United States of America

Telephone: +1 (727) 826–5511

Fax: +1 (727) 826–5510

Emergency Contact:
(800) 255–3924 (US & Canada)
+1 (813) 248–0573 (International)

2. HAZARD IDENTIFICATION

Hazard Classification Not a hazardous substance or mixture.

Signal Word: N/A

Pictograms: N/A

Hazard Statements: N/A

Precautionary Statements: N/A

Other Hazards No data available.

3. COMPOSITION

Additional Names: Lithium Titanium Oxide, Dilithium Titanate, Lithium Metatitanate

Percentage:	Component	Classification	Concentration
	Lithium Titanate	Not a hazardous substance or mixture.	100% wt

CAS #: 12031-82-2

EC #: 234-759-6

4. FIRST AID PROCEDURES

General Treatment If exposed or concerned, seek medical advice or attention. Show this SDS to the physician if medical attention is required.

Special Treatment: Treat symptomatically.

Important Symptoms: No known significant effects or critical symptoms under normal conditions of use.

Inhalation: Remove person to fresh air. If breathing is difficult, seek medical attention. If not breathing, provide artificial respiration by trained personnel and obtain immediate medical attention.

Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed by medical personnel. Seek medical advice if discomfort occurs.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops or persists.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

5. FIREFIGHTING MEASURES

Special Hazards from Substance: This material is not combustible. Fire or high temperature decomposition may produce lithium oxide and titanium oxides. Hazardous metal oxide fumes may be generated under fire conditions.

Extinguishing Media: Use extinguishing media appropriate for the surrounding fire. Water spray, alcohol resistant foam, dry chemical, or carbon dioxide may be used.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and full protective equipment if necessary. Avoid breathing combustion products. Cool exposed containers with water spray if safe to do so.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled: Wear appropriate personal protective equipment. Avoid generating dust. Avoid breathing dust. Sweep or vacuum up spilled material using methods that minimize dust generation. Place material in a suitable, closed container for reuse or disposal in accordance with local regulations. Ventilate the area as needed.

Environmental Precautions: Prevent unnecessary release to the environment. Do not allow large quantities to enter drains, sewers, or waterways.

7. HANDLING AND STORAGE

Handling Conditions: Handle in accordance with good industrial hygiene and safety practices. Avoid generating and breathing dust. Avoid contact with eyes. Wash thoroughly after handling. Use appropriate personal protective equipment as needed.

Storage Conditions: Store in a tightly closed container in a cool, dry, and well ventilated area. Protect from contamination. Keep away from incompatible materials, including oxidizing agents.

Work / Hygienic Maintenance: Do not eat, drink, or smoke while handling this material. Wash hands thoroughly after handling and before eating, drinking, or smoking. Remove contaminated clothing and wash before reuse.

Ventilation: Use adequate general ventilation. Local exhaust ventilation may be used where dust is generated.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Authority	Basis	Limit	Remarks
-	-	-	Contains no substances with occupational exposure limits.

References:

PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
TWA	Time Weighted Average
IDLH	Immediately Dangerous to Life or Health
TLV	Threshold Limit Value

Engineering Controls: Provide adequate general ventilation. Use local exhaust ventilation where necessary to minimize airborne dust concentrations.

Respiratory Protection: Respiratory protection is not normally required under normal conditions of use. Where airborne dust is generated or exposure limits for particulates are exceeded, wear a NIOSH approved particulate respirator, such as an N95 or P95.

Protective Gloves: Wear appropriate protective gloves to minimize prolonged or repeated skin contact.

Eye Protection: Wear safety glasses with side shields or chemical safety goggles where dust generation may occur. Eye protection should comply with ANSI Z87.1 or equivalent.

Body Protection: Wear appropriate protective clothing as needed to minimize skin contact. Select protective clothing suitable for the workplace and level of exposure.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	White / off-white	**Molecular Weight:**	109.75 g/mol
Forms:	Powder	**Theoretical Density:**	3.43 g/cm^3
Odor:	Odorless	**pH:**	Not applicable.
Water Solubility:	Insoluble to slightly soluble	**Auto-Ignition Temperature:**	Not applicable.
Boiling Point:	Not applicable.	**Evaporation Rate:**	Not applicable.
Melting Point / Freezing Point:	> 1,500ºC (>2,732ºF) (decomposes before melting)	**Flammability or Explosive Limits:**	Not flammable or explosive
Vapor Pressure:	Not applicable.	**Partition Coefficient: n-octanol/ water**	Not applicable.
Vapor Density:	Not applicable.	**Decomposition Temperature:**	No data available.
Flash Point:	Not applicable.	**Viscosity:**	Not applicable.

10. REACTIVITY

Stability: Stable under recommended storage and handling conditions.

Reacts with: Strong oxidizing agents.

Incompatible Conditions: Excessive heat and contact with incompatible materials.

Hazardous Decomposition Products: Lithium oxide and titanium oxides may be formed under fire conditions or at elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Eyes:	Dust may cause mechanical irritation.
	Skin:	May cause mild mechanical irritation with prolonged or repeated contact.
	Ingestion:	Low acute toxicity expected. Ingestion of large quantities may cause gastrointestinal discomfort.
	Inhalation:	Dust may cause mechanical irritation of the nose, throat, and respiratory tract.
Chronic Toxicity	Skin Corrosion / Irritation:	Not expected to cause skin irritation under normal conditions of use.
	Serious Eye Damage / Irritation:	Not expected to cause serious eye damage. Dust may cause temporary mechanical irritation.
	Respiratory / Skin Sensitization:	Not expected to be a respiratory or skin sensitizer.
	Mutagenic Effects:	No data available.
	Reproductive / Teratogenic Effects:	No data available.
	Specific Target Organ Toxicity: (single exposure)	No data available.

	Specific Target Organ Toxicity: (repeated exposure)	No data available.
	Aspiration Hazard:	Not applicable, solid powder.
	Other Adverse Effects:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Carcinogenicity:	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
	NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	EU:	No component of this product present at levels greater than or equal to 0.1% is classified as a carcinogen under Regulation (EC) No. 1272/2008 (CLP).

Additional Information: No Data Available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	No data available. Not expected to be harmful to aquatic organisms based on its physical and chemical properties.
Persistence and degradability:	No applicable to inorganic substances.
Bioaccumulative potential:	Not expected to bioaccumulate.
Notes:	No other adverse environmental effects are known under normal conditions of use.

13. DISPOSAL CONSIDERATIONS

Disposal:	Dispose of contents and container in accordance with applicable local, state, and federal regulations. Dispose of unused material and contaminated packaging through an approved waste disposal facility. Do not discharge large quantities to drains, sewers, or the environment.

14. TRANSPORTATION DATA

Hazardous:	**DoT:**	Not Dangerous Goods.
	IMDG:	Not Dangerous Goods.
	IATA:	Not Dangerous Goods.
Pictogram:	N/A	
Hazard Class:	N/A	
Packing Group:	N/A	
UN Number:	N/A	
US DoT	**Proper Name:**	N/A
	Marine Pollutant:	
IMDG	**Proper Name:**	N/A

EMS-No:

Marine Pollutant:

IATA **Proper Name:** N/A

15. REGULATORY INFORMATION

Toxic Substance Control Act	Listed
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Not classified as a hazardous chemical under applicable OSHA Hazard Communication requirements.
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components	No components are listed in Appendix A of the Pennsylvania Worker and Community Right to Know Act.
New Jersey Right to Know Components	No components are listed on the New Jersey Right to Know Hazardous Substance List.
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
EU Regulations	This substance is not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP).

16. OTHER INFORMATION

Copyright 2026 Lorad Chemical Corporation. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. The information in this sheet does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates make no warranty with respect to the accuracy of the information or the suitability of this product for any particular application, and shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision Date: 06/29/2026