

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Zirconium Titanate

Chemical Formula: ZrTiO_4

Manufacturer Item Number: ZI-6120

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

Signal Word: Not a hazardous substance or mixture.

Pictograms: N/A

Hazard Statements: N/A

Precautionary Statements: N/A

HMIS Health Ratings (0-4)

- Health:	1
- Flammability:	0
- Physical:	0

3. COMPOSITION

Additional Names: Zirconium Titanium Oxide, Zirconium oxide, titania stabilized

Percentage: 100 wt%

CAS #: 12036-70-3

EC #: No Data Available.

4. FIRST AID PROCEDURES

General Treatment Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.

Special Treatment: No Data Available.

Important Symptoms: No Data Available.

Inhalation: Remove from exposure. Supply fresh air. If required provided artificial respiration. Keep patient warm. Seek immediate medical attention.

Ingestion: Seek medical attention.

SAFETY DATA SHEET

Skin: Wash off skin thoroughly with soap and warm water. Remove contaminated clothing and wash before re-use. Seek medical attention.

Eyes: Rinse opened eye for several minutes under running water. Then consult a physician.

5. FIREFIGHTING MEASURES

Flammability: Not flammable.

Special Hazards from Substance: No Data Available.

Extinguishing Media: Use fire-fighting measures appropriate for surrounding fire.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled: Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Wear protective equipment and sweep up or vacuum up spillage and collect in a suitable container for disposal. Dispose of waste in accordance with applicable federal, state, local, and provincial environmental regulations.

Environmental Precautions: Prevent further leakage or spills if safe to do so. Do not allow to enter drains, sewers, or watercourses.

7. HANDLING AND STORAGE

Handling Conditions: Keep container tightly sealed. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions: Keep in a cool, dry place.

Work / Hygienic Maintenance: Follow personal protection guidelines in Section 8. Keep away from foodstuffs, beverages, and feed. Wash hands before breaks and at the end of work.

Ventilation: Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits: Zirconium and compounds as Zr
5 mg/m³ - OSHA

Threshold Limit Value: Zirconium and compounds as Zr
5 mg/m³ - ACGIH
5 mg/m³ - Korea

Special Equipment: Chemical fume hood designed for hazardous chemicals with an average face velocity of at least 100 feet per minute.

Respiratory Protection: Wear respirator if there is dust formation or high concentrations of material present. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective Gloves: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Body Protection: Wear appropriate protective clothing.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	White
Forms:	Powder
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	No Data Available.
Melting Point:	No Data Available.
Flash Point:	No Data Available.
Autoignition Temperature:	No Data Available.
Density:	No Data Available.
Molecular Weight:	203.09 g/mol

10. REACTIVITY

Stability:	Stable under recommended storage conditions.
Reacts with:	No Data Available.
Incompatible Conditions:	No Data Available.
Hazardous Decomposition Products:	Decomposition will not occur if used and stored according to specifications.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:	
- Eyes	May cause irritation.
- Skin	May cause irritation.
- Ingestion	No Data Available.
- Inhalation	No Data Available.
- Chronic	No Data Available.
Signs and Symptoms:	Inhalation of circonium compounds may cause pulmonary granulomas. Titanium compounds are considered physiologically inert. There are no reported cases in the literature where titanium as such has caused human intoxication.
Aggravate Medical Conditions:	No Data Available.
Median Lethal Dose:	No Data Available.
Carcinogen:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA, or ACGIH.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	No Data Available.
Persistence and degradability:	No Data Available.

Bioaccumulative potential: No Data Available.

Notes: Avoid transfer to the environment.

13. DISPOSAL CONSIDERATIONS

Disposal: Offer surplus and non-recyclable solutions of a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Empty containers should be taken to an appropriate waste handling site for recycling or disposal. Dispose of in accordance with local, state, or national regulations.

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

Proper Shipping Name: N/A

15. REGULATORY INFORMATION

SARA 302 Components No chemical 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 No SARA Hazards.

Massachusetts Right to Know Components No components are subject to the MA. Right to Know Act.

Pennsylvania Right to Know Components Zirconium Titanate (CAS No. 12036-70-3)

New Jersey Right to Know Components Zirconium Titanate (CAS No. 12036-70-3)

California Prop. 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

Copyright 2017 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.

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