

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Zinc Orthotitanate

Chemical Formula: Zn₂TiO₄

Manufacturer Item Number: ZI-5965

Manufacturer: Lorad Chemical Corporation
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United States of America

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2. HAZARD IDENTIFICATION

Signal Word: Warning

Pictograms:



Hazard Statements: H332 Harmful if inhaled.

Precautionary Statements: P261 Avoid breathing dust / fume / gas / mist / vapor / spray.
P271 Use only outdoors or in a well-ventilated area.
P304+340 IF INHALED: Remove a person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.

HMIS Health Ratings (0-4)

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

3. COMPOSITION

Additional Names: Zinc Titanium Oxide

Percentage: 100 wt%

CAS #: 12036-69-0

EC #: 234-850-0

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:	If breathing, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability:	Non-flammable, except as powder
Special Hazards from Substance:	No Data Available.
Extinguishing Media:	Use firefighting measures that suit the surrounding fire.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Wear appropriate respiratory and protective equipment specified in Section 8. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Avoid dust formation. Avoid breathing vapors, mist, or gas.
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:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in Section 10.
Work / Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:	Long term value: 5 mg/m ³ as Zinc oxide
Threshold Limit Value:	Long term value: 10 mg/m ³ as Zinc oxide
Special Equipment:	No Data Available.
Respiratory Protection:	Dust respirator.
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 or goggles. Use equipment for eye protection tested and approved under 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, granules

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: 242.64 g/mol

10. REACTIVITY

Stability: Stable under recommended storage conditions.

Reacts with: Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fumes

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

- **Eyes** May cause irritation.
- **Skin** May cause irritation.
- **Ingestion** May cause irritation.
- **Inhalation** May cause irritation.
- **Chronic** Zinc containing fumes may cause metal fume fever. Effects include dry throat, metallic taste, chest pain, dyspnea, rales and dry cough. Several hours later, chills may occur with lassitude, malaise, fatigue, headache, back pain, muscle cramps, blurred vision, nausea, fever, perspiration, vomiting, and leukocytosis. Titanium compounds are considered physiologically inert. There are no reported cases in the literature where titanium as such has caused human intoxication.

Signs and Symptoms: No Data Available.

Aggravate Medical Conditions: No Data Available.

Median Lethal Dose: No Data Available.

Carcinogen: No Data Available.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	Low
Persistence and degradability:	No.
Bioaccumulative potential:	No.
Notes:	No Data Available.

13. DISPOSAL CONSIDERATIONS

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

Hazardous:	DoT: Not Dangerous Goods IMDG: Not Dangerous Goods IATA: Not Dangerous Goods
Pictogram:	No Data Available.
Hazard Class:	No Data Available.
Packing Group:	No Data Available.
UN Number:	No Data Available.
Proper Shipping Name:	No Data Available.

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	Acute Health Hazard
Massachusetts Right to Know Components	No components are subject to Ma. Right to Know Act.
Pennsylvania Right to Know Components	Zinc Orthotitanate (CAS No. 12036-69-0)
New Jersey Right to Know Components	Zinc Orthotitanate (CAS No. 12036-69-0)
California Prop. 65 Components	This product does not contain any chemicals know 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 is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety standards. It does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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