

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Cerium Doped Yttrium Silicate

Chemical Formula: Y₂SiO₅:Ce

Manufacturer Item Number: YT-5812

Manufacturer: Lorad Chemical Corporation
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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: N/A

Percentage: 100 wt%

CAS #: 102110-37-2

EC #: 310-037-7

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, rest and keep warm. In severe cases, seek medical attention.

Ingestion: Wash out mouth thoroughly with water and give plenty to drink. In severe cases, seek medical attention.

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

Eyes: Irrigate thoroughly with water for at least ten minutes.

5. FIREFIGHTING MEASURES

Flammability: Not Flammable.

Special Hazards from Substance: No Data Available.

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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. 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: Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions: Keep in a dry place.

Work / Hygienic Maintenance: Follow personal protection guidelines in Section 8.

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

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits: Long (8-hour TWA) - 4 mg/m³

Threshold Limit Value: No Data Available.

Special Equipment: Fume cupboard or local exhaust ventilation.

Respiratory Protection: Dust mask with suitable filter. Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (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:	>2,000°C
Flash Point:	No Data Available
Autoignition Temperature:	No Data Available
Density:	4.4g/cm ³
Molecular Weight:	426.01 g/mol

10. REACTIVITY

Stability:	Stable under recommended storage conditions.
Reacts with:	No Data Available.
Incompatible Conditions:	No Data Available.
Hazardous Decomposition Products:	No Data Available.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:	
- Eyes	No Data Available.
- Skin	No Data Available.
- Ingestion	No Data Available.
- Inhalation	No Data Available.
- Chronic	No Data Available.
Signs and Symptoms:	No Data Available.
Aggravate Medical Conditions:	No Data Available.
Median Lethal Dose:	No Data Available.
Carcinogen:	No evidence of carcinogenic properties.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	No Data Available.
Persistence and degradability:	No Data Available.
Bioaccumulative potential:	No Data Available.
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 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 Cerium Doped Yttrium Silicate (CAS No. 102110-37-2)

New Jersey Right to Know Components Cerium Doped Yttrium Silicate (CAS No. 102110-37-2)

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.

Revision Date: 10/24/17