

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Cerium Sulfide

Chemical Formula: Ce₂S₃

Manufacturer Item Number: CE-1410

Manufacturer: Lorad Chemical Corporation

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2. HAZARD IDENTIFICATION

Signal Word: Warning

Pictograms:





Hazard Statements: H261 In contact with water releases flammable gas.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statements: P231+232 Handle under inert gas. Protect from moisture.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or physician if you feel unwell. P332+313 If skin irritation occurs: Get medical advice / attention. P337+313 If eye irritation persists: Get medical advice / attention.

P370+378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.

P405 Store locked up.

P501 Dispose of contents / container in accordance with local / regional / national / international

regulations.

HMIS Health Ratings (0-4)

- Health: 2 - Flammability: 1 - Physical: 2

3. COMPOSITION

Additional Names: Cerium(III) Sulfide





Percentage: 100 wt%

CAS #: 12014-93-6

EC #: 234-603-7

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: If breathing, move person into fresh air. If not breathing, give artificial respiration. Consult a

physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth

with water. Consult a physician.

Skin: Immediately wash skin off with plenty of soap and water. Remove contaminated clothing if

necessary. If irritation persists, seek medical attention.

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.

Special Hazards from Substance: During fire, gases of Sulfur Oxides or Hydrogen Sulfide may arise.

Extinguishing Media: Use dry sand, dry chemical or alcohol resistant foam for extinction. Do not use water.

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

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure

adequate ventilation. Evacuate personnel to safe area. Sweep up or vacuum up spillage and collect in suitable closed container for disposal. Dispose of waste in accordance with applicable

federal, state, local, and provincial environmental regulations. Do not flush with water.

Environmental Precautions: Prevent further leakage or spills if safe to do so. Do not allow undiluted product or large quantities

to enter drains, sewers, or watercourses. Do not discharge into the environment without proper

governmental permits.

7. HANDLING AND STORAGE

Handling Conditions: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid formation of dust

and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. No smoking.

Storage Conditions: Store in a tightly closed container in a dry, well ventilated place. Never allow product to get in

contact with water during storage. Do not store near acids. Moisture sensitive.

Work / Hygienic Maintenance: Do not eat, drink, or smoke when working with this product. Wear protective gloves and wash skin

thoroughly after handling. Keep formation of airborne dusts to a minimum. Guard against dust

accumulation. Wear suitable respiratory equipment. Sensitive to humidity and water.

Ventilation: Keep in well ventilated area.

SAFETY DATA SHEET

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits: Remarks **Authority Basis** Limit

Contains no substances with occupational exposure limits.

Threshold Limit Value: Authority Remarks **Basis** Limit

Contains no substances with occupational exposure limits.

Special Equipment: Handle in accordance with good industrial hygiene and safety practice. Use proper lab equipment

while handling this product. Keep way from incompatible materials for possible risk of hazardous

reaction.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle

> respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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.

Safety glasses with side-shields. Use equipment for eye protection tested and approved under Eye Protection:

government standards such as NIOSH (US) or EN 166 (EU).

Body Protection: Wear appropriate protective clothing.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Molecular Weight: Color: Red Brown 376.43 g/mol

Forms: Powder Density: 5.02 g/cm3

Odor: Rotten Eggs No Data Available. pH:

Water Solubility: No Data Available. **Auto-Ignition Temperature:** No Data Available.

Boiling Point: No Data Available. **Evaporation Rate:** No Data Available.

Melting Point /

> 2,100°C (> 3,812°F) Freezing Point:

Flammability or Explosive Limits: No Data Available.

Vapor Pressure: No Data Available.

Partition Coefficient: n-octanol/

No Data Available.

Vapor Density: No Data Available. **Decomposition Temperature:**

No Data Available.

Flash Point: No Data Available. Viscosity: No Data Available.

10. REACTIVITY

Stability: Stable under recommended storage conditions.

Reacts with: Water, Acids

Incompatible Conditions: Moisture, Humidity

Hazardous Decomposition

Products:

Contact with acids or water liberates toxic gases such as Hydrogen Sulfide.



SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

Potential Health Effects: Eyes: Causes serious eye irritation.

Skin: Causes skin irritation.

Ingestion: No Data Available.

Inhalation: May cause respiratory irritation.

Chronic: No Data Available.

Signs and Symptoms: Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to

sensitivity to heat, itching, increased awareness of odor and taste, and liver damage.

Sulfides show variable toxicity. The alkaline sulfides are similar in action to alkalies. They cause irritation of the skin and are corrosive by ingestion. The heavy metal sulfides are generally insoluble and show little toxic action except through the liberation of hydrogen sulfide. Hydrogen sulfide, if generated, is toxic, a severe irritant and flammable. Effects include conjunctivitis, headache, nausea, dizziness, coughing, pulmonary edema, and possibly death.

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No Data Available.

Median Lethal Dose: No Data Available.

Carcinogen: 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.

12. ECOLOGICAL INFORMATION

Aggravate Medical Conditions:

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: Hazardous for Transportation

IMDG: Hazardous for Transportation **IATA:** Hazardous for Transportation



Pictogram:



Hazard Class: 4.3 Substances which, in contact with water, emit flammable gases

6.1 Toxic substances

Packing Group:

UN Number: UN3134

Proper Shipping Name: DoT: Water-reactive solid, toxic, n.o.s. (Cerium(III) Sulfide)

IMDG: WATER-REACTIVE SOLID, TOXIC, N.O.S. (Cerium(III) Sulfide)

Marine Pollutant: No EMS-No: F-G, S-O

IATA: WATER-REACTIVE SOLID, TOXIC, N.O.S. (Cerium(III) Sulfide)

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 minimus) reporting levels established by SARA Title III, Section

313.

SARA 311/312 Hazards No SARA Hazard.

Massachusetts Right to Know

Components

No components are subject to the Ma. Right to Know Act.

Pennsylvania Right to Know

Components

Cerium(III) Sulfide (CAS No. 12014-93-6)

New Jersey Right to Know Components Cerium(III) Sulfide (CAS No. 12014-93-6)

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.

16. OTHER INFORMATION

Copyright 2018 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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