


[Calcium Lanthanum Sulfide](#)

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Linear Formula	CaLa ₂ S ₄
Pubchem CID	N/A
MDL Number	MFCD00061418
EC No.	235-689-9
IUPAC Name	N/A
SMILES	[Ca+2].[La+3].[La+3].[S-2].[S-2].[S-2].[S-2]
Inchl Identifier	InChI=1S/Ca.2La.4S/q+2;2*+3;4*-2
Inchl Key	ZZSKUXUYRKRFDG-UHFFFAOYSA-N
Signal Word	Warning
Hazard Statements	H315-H319-H335
Hazard Codes	Xi
Precautionary Statements	P261-P280-P305+P351+P338-P405-P501
Risk Codes	36/37/38
Safety Statements	26-37-60
RTECS Number	N/A
Transport Information	NONH for all modes of transport
WGK Germany	N/A
GHS Pictograms	GHS07 Exclamation Point 

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SAFETY DATA SHEET

Date Accessed: 04/24/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #12525-03-0

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Signal Word: Warning
Hazard Statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary Statements:
P261 Avoid breathing dust / fumes / gas / mist / vapors / spray.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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: 3
- Physical: 2



SECTION 3. COMPOSITION/INFORMATION

ON INGREDIENTS

Additional Names: Calcium Lanthanum Sulphide
Percentage: 100 wt%

SECTION 4. FIRST AID MEASURES

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 treatment.
Skin: For skin contact, flush with large amounts of soap and water while removing contaminated clothing. Consult a physician.
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.

SECTION 5. FIREFIGHTING MEASURES

Flammability: Flammable
Special Hazards from Substance: Material may form sulfur oxides, hydrogen sulfide, metal oxide fumes.
Extinguishing Media: Carbon dioxide, extinguishing powder or water spray. Fight large fires with water spray or alcohol resistant foam.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 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 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.

SECTION 7. HANDLING AND STORAGE

Handling Conditions: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see Section 2.

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

Work / Hygienic Maintenance: Keep formation of airborne dusts to a minimum. Guard against dust accumulation. In case of insufficient ventilation, wear suitable respiratory equipment.

Ventilation: Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation wear suitable respiratory equipment.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Permissible Exposure Limits: No Data Available

Threshold Limit Value: No Data Available.

Special Equipment: No Data Available.

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.

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

Body Protection: Wear appropriate protective clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: white

Forms: powder

Odor: No Data Available.

Water Solubility: No Data Available.

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: 446.15 g/mol

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Reacts with: No dangerous reactions known.

Incompatible Conditions: No Data Available.

Hazardous Decomposition Products: Sulfur oxides,
Metal oxide fume, Hydrogen sulfide

SECTION 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: The toxicity of calcium compounds is generally due to the anion. 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.

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 EPA, IARC, NTP, OSHA, or ACGIH.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No Data Available.

Persistence and degradability: No Data Available.

Bioaccumulative potential: No Data Available.

Notes: Do not allow this material to be released into the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

SECTION 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.

SECTION 14. TRANSPORT INFORMATION

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

SECTION 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 Calcium Lanthanum Sulfide (CAS No.1252-03-0)
New Jersey Right to Know Components Calcium Lanthanum Sulfide (CAS No.1252-03-0)
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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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 regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.
