

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Lanthanum Strontium Cobaltite

Chemical Formula: La<sub>x</sub>Sr<sub>1-x</sub>CoO<sub>3</sub>

Manufacturer Item Number: LA-2600

Manufacturer: Lorad Chemical Corporation

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## 2. HAZARD IDENTIFICATION

Signal Word: Danger

Pictograms:



**Hazard Statements:** H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

Precautionary Statements: P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

P301+312 IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

 ${\tt P305+351+338\ IF\ IN\ EYES: Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove\ contact}$ 

lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or physician.

P321 Specific treatment. P330 Rinse mouth.

P333+313 If skin irritation or rash occurs: Get medical advice / attention.

P362 Take off contaminated clothing and waste before reuse.

P501 Dispose of contents / container to an approved waste disposal plant.

HMIS Health Ratings (0-4)

- Health: 2 - Flammability: 0 - Physical: 0



#### 3. COMPOSITION

Additional Names: Lanthanum Strontium Cobalt Oxide; Cobalt Lanthanum Strontium Oxide; Strontium Doped

Lanthanum Cobalt Oxide

Percentage: 100 wt%

CAS #: 108916-09-2

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

physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

physician.

**Skin:** Wash off with soap and plenty of water. Consult a physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## 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. Evacuate

personnel to safe areas. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers 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: Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

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

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 appropriate exhaust ventilation at places where dust is formed.



#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits: Authority Basis Limit Remarks

- No substances with occupational exposure limit values.

Threshold Limit Value: Authority Basis Limit Remarks

No substances with occupational exposure limit values.

Special Equipment: No Data Available.

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 the 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 and face shield. Use equipment for eye protection tested and approved under

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

**Body Protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected

according to concentration and amount of the dangerous substance at the specific workplace.

## 9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:Black / GrayMolecular Weight:235.58 g/mol

Forms: Powder Density: No Data Available.

Odor: Odorless pH: No Data Available.

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

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

Melting Point /

Freezing Point:

No Data Available.

Flammability or Explosive Limits:

No Data Available.

Vapor Pressure: No Data Available. Partition Coefficient: n-octanol/

water

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: Strong Oxidizing agents.

Incompatible Conditions: No Data Available.

Hazardous Decomposition Products: In case of fire, material may release metal oxide fumes.



### 11. TOXICOLOGICAL INFORMATION

Potential Health Effects: Eyes: May cause pain, excessive blinking, tears, redness, or damage to eyes.

Skin: May cause irritation.

Ingestion: May cause irritation.

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

Aggravate Medical Conditions: 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

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 GoodsIATA: Not Dangerous Goods

Pictogram: N/A

Hazard Class: N/A

Packing Group: N/A

UN Number: N/A



Proper Shipping Name: DoT: N/A

IMDG: N/A

IATA: N/A

## 15. REGULATORY INFORMATION

SARA 302 Components No chemicals 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 the Ma. Right to Know Act.

Pennsylvania Right to Know Components Lanthanum Strontium Cobaltite (CAS No. 108916-09-2).

New Jersey Right to Know Components Lanthanum Strontium Cobaltite (CAS No. 108916-09-2).

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**

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