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1. Product and Company Identification

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Trade Name: Lanthanum Strontium Ferrite  
Chemical Formula:  $\text{La}_x\text{Sr}_{1-x}\text{FeO}_3$   
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.  
Street: 37 Ramland Road  
City: Orangeburg  
State: New York  
Zip Code: 10962  
Country: USA  
Tel #: 855-587-2436 / 855-lts-chem

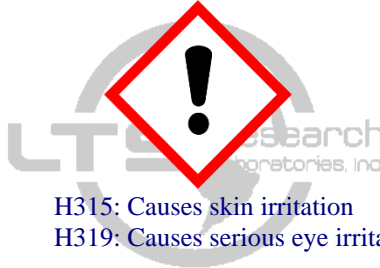
24-Hour Emergency Contact: 800-424-9300 (US & Canada)  
+1-703-527-3887 (International)

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2. Hazards Identification

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Signal Word: Warning



Hazard Statements: H315: Causes skin irritation  
H319: Causes serious eye irritation

Precautionary Statements: P264: Wash face, hands and any exposed skin thoroughly after handling  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352: IF ON SKIN: Wash with soap and water  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P332+P313: If skin irritation occurs: Get medical advice/attention  
P337+P313: If eye irritation persists get medical advice/attention  
P362: Take off contaminated clothing and wash before reuse

HMIS Health Ratings (0-4):  
Health: 2  
Flammability: 0  
Physical: 0

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### 3. Composition

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Chemical Family: Ceramic  
Additional Names: Lanthanum Strontium Iron Oxide

Lanthanum Strontium Ferrite ( $\text{La}_x\text{Sr}_{1-x}\text{FeO}_3$ )

Percentage: 100 wt%  
CAS #: N/A  
EC #: N/A

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### 4. First Aid Procedures

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General Treatment: Seek medical attention if symptoms persist.  
Special Treatment: None  
Important Symptoms: N/A

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical attention.

Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

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### 5. Firefighting Measures

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Flammability: Non-Flammable, except as powder

Extinguishing Media: Do not use water for metal fires. Use alcohol-resistant foam, dry chemical or carbon dioxide.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

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### 6. Accidental Release Measures

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If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. 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. Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

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### 7. Handling and Storage

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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.

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## 8. Exposure Controls and Personal Protection

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|                              |   |
|------------------------------|---|
| Permissible Exposure Limits: | N/A   |
| Threshold Limit Value:       | N/A   |
| Special Equipment:           | None  |
| Respiratory Protection:      | Use a recommended dust respirator or mask. Only use equipment tested and approved under appropriate government standards. |
| Protective Gloves:           | Rubber gloves   |
| Eye Protection:              | Safety glasses or goggles   |
| Body Protection:             | Protective work clothing. Wear close-toed shoes and long sleeves/pants.   |

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## 9. Physical and Chemical Characteristics

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|                           |  |
|---------------------------|--|
| Color                     | Black  |
| Form:                     | Powder, Granules, Pellets, Sputtering target, Custom parts |
| Odor:                     | Odorless   |
| Water Solubility:         | Insoluble  |
| Boiling Point:            | N/A  |
| Melting Point:            | N/A  |
| Flash Point:              | N/A  |
| Autoignition Temperature: | N/A  |
| Density:                  | N/A  |
| Molecular weight:         | N/A  |

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## 10. Reactivity

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|                                   |  |
|-----------------------------------|--|
| Stability:                        | Stable under recommended storage conditions                        |
| Reacts With:                      | Strong acids, Oxidizing agents                                     |
| Incompatible Conditions:          | None   |
| Hazardous Decomposition Products: | Strontium oxides, Lanthanum oxides, Iron oxides, Metal oxide fumes |

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## 11. Toxicological Information

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|                                |                           |
|--------------------------------|---------------------------|
| Potential Health Effects:      |                           |
| Eyes:                          | Causes serious irritation |
| Skin:                          | May cause irritation      |
| Ingestion:                     | May cause irritation      |
| Inhalation:                    | May cause irritation      |
| Chronic:                       | N/A                       |
| Signs & Symptoms:              | N/A                       |
| Aggravated Medical Conditions: | N/A                       |
| Median Lethal Dose:            | N/A                       |
| Carcinogen:                    | N/A                       |

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## 12. Ecological Information

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|--|-----|
| Aquatic Toxicity:                      | N/A |
| Persistent Bioaccumulation Toxicity:   | N/A |
| Very Persistent, Very Bioaccumulative: | N/A |
| Notes:                                 | N/A |

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### 13. Disposal Considerations

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Dispose of in accordance with local, state, national, and international regulations.

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### 14. Transportation Data

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Hazardous:

Hazardous as powder only



Hazard Class:

8 Corrosives

Packing Group:

III

UN Number:

UN3262

Proper Shipping Name:

Corrosive solid, basic, inorganic, n.o.s. (Lanthanum Strontium Ferrite)

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### 15. Regulatory Information

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Sec 302 Extremely Hazardous:

No

Sec 304 Reportable Quantities:

N/A

Sec 313 Toxic Chemicals:

No

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### 16. Other Information

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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