



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lanthanum (III) fluoride, anhydrous**

PRODUCT NO: 2131

CAS NO: 13709-38-1

SYNONYMS: Lanthanum trifluoride

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H315	Causes skin irritation
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P302 + P352	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
P405	Store locked up

### HMS CLASSIFICATION:

Health: 0      Flammability: 0      Reactivity: 0

### NFPA RATING:

Health: 0      Fire: 0      Reactivity Hazard: 0

**EYE CONTACT:** Causes severe irritation of the eyes.

**SKIN CONTACT:** Causes irritation, with redness and pain. Soluble fluoride may be corrosive. Effects may not appear immediately.

**INHALATION:** Irritating to skin, eyes, and respiratory tract.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**INGESTION:** May cause salivation, nausea, vomiting, diarrhea, and abdominal pain.

**CHRONIC HEALTH EFFECTS:** Prolonged exposure to water soluble fluorine compounds can cause deterioration of bone and tooth structure.

**ACUTE HEALTH EFFECTS:** Irritating to skin, eyes and respiratory tract. Fluoride poisoning may cause nausea, vomiting, diarrhea, weakness, coma, and respiratory paralysis.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: LaF<sub>3</sub>

Molecular Weight: 195.9

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Lanthanum (III) fluoride	13709-38-1	100	2.5 mg/m <sup>3</sup> (as F)	2.5 mg/m <sup>3</sup> (as F)

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical attention.

**INHALATION:** Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not applicable

**AUTO IGNITION TEMPERATURE:** None

**EXPLOSION LIMITS:** None

**EXTINGUISHING MEDIUM:** None. Material if not flammable.

**SPECIAL FIRE FIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen fluoride, Lanthanum oxides

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Avoid dust formation. Avoid breathing vapors, mist or gas.

**ENVIRONMENTAL PRECAUTIONS:** Do not let products enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Small spills can be mixed with powdered sodium bicarbonate, lime, or calcium carbonate and swept up.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Provide appropriate exhaust ventilation. Normal measures for preventive fire protection.

**CONDITIONS FOR SAFE STORAGE:** Store in a tightly sealed container away from moisture. Handle under a dry atmosphere of air or nitrogen. Prolonged exposure to the atmosphere may degrade the product.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EYE PROTECTION:** Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical resistant gloves.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White powder

**MELTING POINT:** 1493° C

**BOILING POINT:** 2330° C

**MOLECULAR WEIGHT:** 195.9

**ODOR:** None

**SPECIFIC GRAVITY:** 5.936 gm/ml

**VAPOR PRESSURE:** No data available

**VAPOR DENSITY (AIR = 1):** No data available

**SOLUBILITY IN WATER:** Slightly soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable under recommended storage conditions

**HAZARDOUS POLYMERIZATION:** No hazardous

**CONDITIONS TO AVOID:** Contact with moisture

**INCOMPATIBILITY:** Active metals

**DECOMPOSITION PRODUCTS:** Hydrogen fluoride, Lanthanum oxides

## SECTION 11 TOXICOLOGICAL DATA

**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

**MUTAGENIC EFFECTS:** May cause adverse reproductive effects (fetotoxicity) based on animal data.

**TETRAOGENIC EFFECTS:** No data

**TOXICITY DATA:** Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**RTECS DATA:** No information available in the RTECS files.

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

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

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Non-hazardous material

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA Inventory

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**OSHA HAZARDS:** No known OSHA hazards

**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA (TITLE 313):** 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 HAZARD:** No SARA hazards

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right to Know Act.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Lanthanum fluoride

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Lanthanum fluoride

**CALIFORNIA PROP. 65 COMPONENTS:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE PREPARED:** 03/14

**SDS DEPT.**