High Purity Materials
KOJUNDO CHEMICAL LABORATORY CO.,LTD.
株式会社 高純度化学研究所

SAFETY DATA SHEET

1. Chemical Product and Company Identification

ProductName LaF3 (anhydrous,Grain,Powder,Sheet,Tablet,Target,Code #:LAH06XB)

Reference NO. LAH06XAG-001

Creation Date 2026/04/20

Company information	Name	:	Kojundo Chemical Laboratory Co.,Ltd.
	Address	:	5-1-28, Chiyoda, Sakado , Saitama, 350-0284, Japan
	Name of Section	:	Quality Assurance Dept.
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Product Use	For research purposes
Restriction of use	Seek expert judgment when using the product for applications other than those recommended

2. Hazards identification

[GHS CLASSIFICATION]

PHYSICAL HAZARDS

Not Classification criteria.

HEALTH HAZARDS

Skin corrosion/irritation	:	Category2
Serious eye damage/Eye Irritation	:	Category2
Specific target organ toxicity(single exposure)	:	Category3(Respiratpory tract irritation)

ENVIRONMENTAL HAZARDS

Not Classification criteria.

[GHS LABEL ELEMENTS]

Pictogram :

Signal Word : Warning

Hazard Statement : Causes skin irritation(H315)

: Causes serious eye irritation(H319)

: May cause respiratory irritation(H335)

Precautionary Statement

Safety measures : Avoid breathing dust/fume/gas/mist/vapours/spray.(P261)

: Wash the competent authority to specify parts of the body to be washed after handling. thoroughly after handling.(P264)

: Use only outdoors or in a well-ventilated area.(P271)

: Wear protective gloves/protective clothing/eye protection/face protection.(P280)

First aid measures : Call a POISON CENTER/doctor if you feel unwell.(P312)

: Specific treatment.(P321)

: IF ON SKIN: Wash with plenty of water(P302+P352)

: IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)

: If skin irritation occurs: Get medical advice/attention. (P332+P313)

: If eye irritation persists: Get medical advice/attention. (P337+P313)

: Take off contaminated clothing and wash it before reuse. (P362+P364)

Storage : Store locked up.(P405)

: Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Disposal : Dispose of contents/container in accordance with local/regional/national/international regulation.(P501)

3. Composition/information on ingredients

Classification of the substance or mixture : Substance

Chemical or generic name : Lanthanum fluoride，anhydrous

Chemical name	Concentration(%)	CAS RN®
Lanthanum fluoride	100.00	13709-38-1

4. First aid measures

Inhalation : Remove the exposed person immediately and provide fresh air. Get medical attention.

Skin contact : Promptly flush contaminated skin with soap or mild detergent and water.
Contact Dermatologist if irritation continues.

Eye contact : Rinse cautiously with water for 15 minutes.Get medical attention from an ophthalmologist.
When washing your eyes, hold your eyelids open with your fingers to allow water to reach every corner of your eyeballs and eyelids.

Ingestion : Rinse mouth and throat with water. Get medical attention immediately.

Necessary precautions for protection of person performing first aid measures : Rescue workers wear appropriate eye and skin protection equipment according to the situation.

Special precautions for doctors : The doctor should carry out treatment that corresponds to the patient's symptoms.

5. Fire fighting measures

Suitable extinguishing media : Use media appropriate for surrounding fire.

Unsuitable extinguishing media : If there are overlapping items between “Suitable extinguishing media” and “Unsuitable extinguishing media”, the use of that extinguishing media is prohibited.

Special hazards arising from the substance or mixture : In the case of powders, there is a risk of dust explosions due to surrounding heat or ignition sources.

Special protective equipment and precautions for fire-fighters : Wear appropriate respiratory air and the protective clothing (heat resistance).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	: Remove all ignition sources.
	: Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts. Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd.
Enviromental precautions	: Prevent flow out to river, etc. so as not to badly affect.
Methods and material for containment and cleaning up	: Shut off leak if without risk. Avoid unnecessary contacts with spills.
	: Gather up, pack in closed DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place.
Measures to prevent secondary disasters	: Prevent leakage into sewer, rivers and etc., and take measures to prevent environmental pollution.

7. Handling and storage

Handling

Technical measures	: No information available
Precautions for safe handling	: No information available
Avoid contact	: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure.
Hygiene measures	: Do not eat, drink or smoke when using this product.
	: Wash hands thoroughly after handling.

Storage

Safe storage conditions	: Store the material in a sealed container. Store in a cool, dry, well ventilated and dark place away from incompatible materials.
	: Store molded products such as targets in an unopened condition.
Safe container packaging materials	: No information available

8. Exposure controls / Personal protection

Control parameters

Chemical name	ACGIH	OSHA
Lanthanum fluoride	TWA:2.5mg/m3 TWA:Fluorides, as F	TWA:2.5mg/m3 TWA:Fluorides (as F)

Equipment : Install the appropriate general ventilation equipment, local exhaust ventilation in the workplace.

Personal protection

Respiratory protection	: Wear appropriate NIOSH/MSHA-approved respirator.
Hand protection	: Wear appropriate NIOSH/MSHA-approved impervious gloves.
Eye and face protection	: Wear appropriate NIOSH/MSHA-approved safety goggles.
Skin and body protection	: Wear appropriate NIOSH/MSHA-approved impervious protective wear, protective boots.

Special precautions	: Regularly check your protective gear.
	: The notes for the table are as follows. D: Dust, M: Mist, F: Fumes, I: Inhalable particles, R: Respirable particles, IFV: Inhalable particles and vapors, T: Total dust, V: Vapors, C: Ceiling limit

9. Physical and chemical properties

Physical state	: Solid
Color	: White
Odour	: No information available
Melting point/Freezing point	: 1493℃
Boiling point, initial boiling point and boiling range	: 2327℃
Flammability	: Non-combustible
Range of explosion (lower bound - upper bound)	: No information available
Flash point	: No information available
Autoignition temperature	: No information available
Decomposition temperature	: No information available
pH	: No information available
Kinematic viscosity	: No information available
Solubility	: Insoluble in water
Partition coefficient (n-octanol/water)	: No information available
Vapor pressure	: No information available
Density/Specific gravity	: 5.9g/cm3
Relative vapor density	: No information available
Particle characteristics	: No information available
Other	: F.W. : 195.9 Oxidizing : None

10. Stability and reactivity

Reactivity	: No information available
Chemical stability	: Stable in closed container under dry atmosphere (at room temperature).
Possibility of hazardous reactions	: No information available
Conditions to avoid	: Keep away from direct sunlight. Store in a cool, dark place.
Incompatible materials	: No information available
Hazardous decomposition products	: No information available

11. Toxicological information

Acute toxicity(oral)
No information available

Acute toxicity(dermal)
No information available

Acute toxicity(inhalation:gases)
No information available

Acute toxicity(inhalation:vapours)
No information available

Acute toxicity(inhalation:dusts and mists)
No information available

Skin corrosion/Skin irritation
Lanthanum fluoride : Category2

Serious eye damage/Eye Irritation
Lanthanum fluoride : Category2A

Respiratory sensitizer
No information available

Skin sensitizer
No information available

Germ cell mutagenicity
No information available

Carcinogenicity
No information available

Toxic to reproduction/Effects on or via lactation
No information available

Specific target organ toxicity(single exposure)
Lanthanum fluoride : Category3(Respiratpory tract irritation)

Specific target organ toxicity(repeated exposure)
No information available

Aspiration hazard
No information available

12. Ecological information

Hazard to the aquatic environment (acute)
No information available

Hazard to the aquatic environment (chronic)
No information available

Hazardous to the ozone layer
No information available

Ecotoxicity/Fish toxicity
No information available

Ecotoxicity/ Invertebrate toxicity
No information available

Ecotoxicity/ Algal toxicity
No information available

Persistence and degradability
No information available

Bioaccumulative potential
No information available

Mobility in soil
No information available

13. Disposal considerations

Remained waste	: Discard in accordance with the standards of the local government and relevant legislation.
A polluted container and packing	: When disposing of empty containers, empty containers are processed in accordance with the standards of the local government as well as the related laws and regulations and waste disposal method after contents are completely removed.

14. Transport information

UN number	: No information available
Guideline Number	: -
Shipping name	: No information available

UN Class	:	No information available
Packing group	:	No information available
Subsidiary risk(s)	:	-
MARINE POLLUTANT	:	Not applicable
Transport in bulk according to MARPOL 73/78,Annex Ⅱ,and the IBC code	:	Not applicable
Special safety measures for transport or means of transport	:	Follow "7. Handling and storage"
	:	Check no leak of container, handle witout overturning, falling and damaging,then reliably prevent from cargo shift.

Domestic regulations

Ground transport	:	Follow the transportation method specified in the Fire Service Law and the Industrial Safety and Health Law.
Marine transport	:	Follow the transportation method specified in the Ship Safety Law.
Air transport	:	Follow the transportation method specified in the Aviation Law.

15. Regulatory information

Follow relavant national and local regulations.

16. Other information

This ” Safety Data Sheet(SDS)" is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

Since not all materials and literature have been investigated, information may be omitted, and changes may occur in the content due to the discovery of new findings or corrections of previous theories.

The information contained herein is based on information in our possession, but we do not guarantee the completeness of the information.

It is subject to revision based on changes in laws and regulations and new findings.

When using this information for important decisions, we recommend that you carefully review the source of the information or verify it through testing.

Values of ingredients, content, physicochemical properties, etc., are not quality assurance values.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used.

The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

Special Notes (displayed only if applicable)