

Plasmaterials, Inc.
 2268 Research Drive
 Livermore, CA 94550
 Ph: (925) 447-4030 Fx: (925) 447-4031
<http://plasmaterials.com>

MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION LaF3	PRODUCT NAME Lanthanum Fluoride
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Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
LaF3	13709-38-1	100	2.5mg (F)/M³	2.5mg (F)/M³

Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPEARANCE AND ODOR White powder, pieces or plate
MELTING POINT (BASE METAL) 1266°C	SPECIFIC GRAVITY N/A

Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits Non Flammable	LEL N/A	UEL N/A
EXTINGUISHING MEDIA Use suitable extinguishing media for surrounding materials and type of fire.			
SPECIAL FIRED FIGHTING PROCEDURES Wear self-contained breathing apparatus with full protective clothing. Fumes from fire are hazardous.			
UNUSUAL FIRE AND EXPLOSION HAZARDS When heated to decomposition, or on contact with acid or acid fumes, LaF3 emits highly toxic fumes, hydrogen fluoride vapors and fluoride gas.			

Section 5- REACTIVITY DATA

STABILITY Stable	INCOMPATABILITY (MATERIALS TO AVOID) Acids
CONDITIONS TO AVOID	
HAZARDOUS DECOMPOSITION PRODUCTS Fluoride fumes, hydrogen fluoride, fluorine gas and lanthanum oxide.	

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation Skin Skin Absorption Eye Contact Ingestion

EFFECTS OF OVEREXPOSURE

To the best of our knowledge the chemical, physical and toxicological properties of LaF3 have not been thoroughly investigated and recorded. Lanthanum is considered a rare earth metal. These metals are moderately to highly toxic. The symptoms of toxicity of the rare earth elements include writhing, ataxia, labored respiration, walking on the toes with arched back and sedation. The rare earth elements exhibit low toxicity by ingestion exposure. However, the intraperitoneal route is highly toxic while the subcutaneous route is poisonous to moderately toxic.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove victim to fresh air; keep warm and quiet. Give oxygen if breathing is difficult.

INGESTION: Give 1-2 glasses of milk or water to induce vomiting.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES

Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particularly absolute (HEPA) air filter and place in a closed container for proper disposal.

WASTE DISPOSAL METHODS

Dispose in accordance with local, state and federal regulations.

Section 8- SPECIAL PROTECTION

RESPIRATORY

NIOSH approved dust-mist-vapor respirator.

VENTILATION

Local exhaust: to maintain concentration at or below the TLU, PEL

EYE PROTECTION & PROTECTIVE CLOTHING

Eye protection (safety glasses) is required.

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