



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lithium Fluoride**

PRODUCT NUMBER: 2338

CAS NUMBER: 7789-24-4

### MANUFACTURER:

Prochem, Inc.  
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Rockford, IL 61109

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H402	Harmful to aquatic life.

### Precautionary Phrases

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to an approved waste disposal plant.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**POTENTIAL HEALTH EFFECTS:** Eyes, skin, inhalation, and ingestion

**EYE CONTACT:** Causes eye irritation

**SKIN CONTACT:** May be harmful if absorbed through skin. Causes skin irritation.

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.

**INGESTION:** Harmful if swallowed.

**HMIS CLASSIFICATION:**

HEALTH: 2

FLAMMABILITY: 1

PHYSICAL HAZARD: 0

**NFPA RATING:**

HEALTH HAZARD: 2

FIRE: 1

REACTIVITY HAZARD: 0

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: LiF

Molecular Weight: 25.94

CHEMICAL NAME	CAS#	%
Lithium Fluoride	7789-24-4	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

**SKIN EXPOSURE:** Wash off with plenty of soap and water. If symptoms persists, call a physician.

**INHALATION:** Remove victim to fresh air immediately. If not breathing, give artificial respiration. If symptoms persist, call a physician.

**INGESTION:** Do NOT induce vomiting. Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not applicable

**AUTO IGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** None

**EXTINGUISHING MEDIUM:** Water spray, foam, carbon dioxide, dry powder.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and full gear.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen fluoride

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Always wear appropriate protective equipment. Avoid breathing dust. Avoid contact with skin, eyes, and clothing.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Avoid dust formation. Pick up and transfer to properly labeled containers.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Avoid creating dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

**CONDITIONS FOR SAFE STORAGE:** Store in a cool, dry place. Store in a tightly closed container. Protect from moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Form of Exposure
Lithium Fluoride	2.5 mg/m <sup>3</sup>	OSHA Z-1	TWA
	2.5 mg/m <sup>3</sup>	ACGIH	TWA
	2.5 mg/m <sup>3</sup>	OSHA P0	TWA

**EYE PROTECTION:** Wear appropriate protective eyeglasses or chemical safety goggles.

**SKIN PROTECTION:** Wear appropriate protective gloves to prevent skin exposure.

**VENTILATION:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Avoid breathing dust.

**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:** Colorless crystal

**MOLECULAR WEIGHT:** 25.94

**BOILING POINT:** 1681° C

**MELTING POINT:** 848° C

**SPECIFIC GRAVITY:** 2.64

**VAPOR PRESSURE:** No data available

**SOLUBILITY IN WATER:** Slightly soluble in water

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Dust generation and moisture

**INCOMPATIBILITY:** Acids

**DECOMPOSITION PRODUCTS:** Hydrogen fluoride

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 (Rat): 706 mg/kg

**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is identified as a known carcinogen.

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

## SECTION 12 ECOLOGICAL DATA

**TOXICITY TO FISH:** LC50 (Oncorhynchus mykiss (rainbow trout)): 69.6 mg/l : 96h

**TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:** EC50 (Daphnia): 132.44 mg/l: 48h

**TOXICITY TO ALGAE:** EC50 (Desmodesmus subspicatus (green algae)): 58.7 mg/l: 96 h

**TOXICITY TO MICROORGANISMS:** EC50 (activated sludge): 85.78 mg/l : 3 h

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Non-hazardous

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**SARA 313 COMPONENTS:** This material does not contain any chemical compounds with known CAS numbers that exceed the threshold reporting levels established by SARA title III, Section 313.

**SARA 311/312 HAZARD:** Acute toxicity (any route of exposure)

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

**PENNSYLVANIA RIGHT TO KNOW:** Lithium Fluoride CAS#7789-24-4

**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.

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