



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Calcium fluoride**  
PRODUCT NUMBER: 1387  
CAS NUMBER: 7789-75-5  
SYNONYMS: Calcium Difluoride, Fluorspar  
**MANUFACTURER:**

ProChem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H303	May be harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	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 and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### HMIS CLASSIFICATION:

Health: 1      Flammability: 0      Reactivity: 1

### NFPA RATING:

Health: 1      Fire: 0      Reactivity Hazard: 1

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** Causes irritation to the eyes.

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

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

**INGESTION:** May be harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: CaF<sub>2</sub>

Molecular Weight: 78.08

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Calcium fluoride	7789-75-5	100	2.5 mg/m <sup>3</sup>	No data

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**SKIN EXPOSURE:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention. First treatment with calcium gluconate paste.

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms appear.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable or combustible.

**AUTO IGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** Not applicable

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen fluoride and calcium oxide

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Keep container tightly closed. Ensure good ventilation. Avoid contact with skin and eyes.

**CONDITIONS FOR SAFE STORAGE:** Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Protect from humidity and water.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Calcium fluoride	2.5 mg/m <sup>3</sup>	TLV	ACGIH
	2.5 mg/m <sup>3</sup>	TWA	OSHA
	2.5 mg/m <sup>3</sup>	TWA	NIOSH
	2.5 mg/m <sup>3</sup>	PEL	NIOSH

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

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

**SKIN PROTECTION:** Chemical resistant gloves.

**VENTILATION:** Handle in an efficient chemical 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 solid

**MOLECULAR WEIGHT:** 78.08

**BOILING POINT:** 2500° C

**MELTING POINT:** 1423° C

**ODOR:** Odorless

**SPECIFIC GRAVITY:** 3.18

**VAPOR PRESSURE:** Not applicable

**SOLUBILITY IN WATER:** 0.0016 gm/100ml

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Oxidizing agents and water or moisture.

**INCOMPATIBILITY:** Oxidizing agents

**DECOMPOSITION PRODUCTS:** Hydrogen fluoride and calcium oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat - 4250 mg/kg. LD50 Inhalation – rat – 4h - > 5.07 mg/l.

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified as a confirmed carcinogen by IARC, ACGIH, NTP, and OSHA.

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** No data

**RTECS DATA:** EW1760000

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

## SECTION 12 ECOLOGICAL DATA

No information available

## 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

**SARA 313 COMPONENTS:** 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 HAZARDS:** No SARA Hazards

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

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS** Calcium fluoride

**NEW JERSEY RIGHT TO KNOW COMPONENTS** Calcium 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 REVISED:** 03/22  
**SDS DEPT.**