

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Calcium Fluoride

1. Product and Company Identification

Trade Name: Calcium fluoride

Chemical Formula: CaF₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel#: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.

P302+P352 If on skin: wash with plenty of water

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Reactivity: 1

3. Composition

Chemical Family: Salt

Additional Names: Fluorite, Fluorspar

Calcium fluoride (CaF₂):

Percentage: 100 wt% CAS #: 7789-75-5 EC #: 232-188-7

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: Symptoms may not appear for several hours. Medical observation is

recommended for 48 hours after serious exposure.

Important Symptoms: None

Skin:

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Ingestion: Give one to two glasses of water and induce vomiting. Never induce

vomiting or give anything by mouth to an unconscious person.

Wash affected area with mild soap and water. Remove any

contaminated clothing.

Eyes: Flush eyes with water, blinking often for ten minutes.

5. Fire and Explosion Hazards Data

Flammability: Non-flammable

Flash Point: N/A
Autoignition Temperature: N/A

Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of

fire.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

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

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store under dry

inert gas.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

TLV.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 2.5 mg/m³ as F (USA) Threshold Limit Value: 2.5 mg/m³ as F (USA)

Special Equipment: None

Respiratory Protection: Dust Respirator, NIOSH approved

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses / goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics	
Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Soluble
Boiling Point:	~2500 °C
Melting Point:	1403 °C
Density:	3.18 g/cc
Molecular weight:	78.08 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Strong acids, Oxidizing agents, Water
Incompatible Conditions:	Moisture
Haz. Decomposition Products:	Hydrogen fluoride, Calcium oxide
	11. Toxicological Information
Potential Health Effects:	
Eyes:	Causes serious irritation
Skin:	Causes irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	N/Å
Routes of Entry:	None
Target Organs:	N/A
Signs & Symptoms of Exposure: Medical Conditions	N/A
Aggravated by Exposure:	N/A
Median Lethal Dose:	4417 mg/kg for rat by mouth
Carcinogen:	ACGIH A4: Not classifiable as a human carcinogen: Inadequate data
	on which to classify the agent in terms of its carcinogenicity in humans and/or animals.
	12. Ecological Information
Ecological data is not available.	
	13. Disposal Considerations
Dispose of in accordance with local, s	tate and federal regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A
Troper Shipping Name.	1 V/ /1

	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	
	16. Other Information	

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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