

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, amended by 2015/830/EU

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the product

Product Description	Fluorspar
Synonym	Calcium Fluoride, Fluorite
Pure Substance/preparation	Substance
CAS Number	7789-75-5
EC Number	232-188-7

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Manufacture of substances
Uses advised against	No uses advised against has been identified

1.3 Details of the Supplier of the Safety Data Sheet

Gujrat Fluorochemicals Ltd.

12/A Dahej Industrial Estate, Taluka Vagra,
Distt. Bharuch-392130, Gujrat, India

Website	www.gfl.co.in
Telephone	+91-2641-618031(Admin)/618041-50(Purchase)/618086-87(Security)
Fax	+91-2641-618012
E-mail address	contact@gfl.co.in

1.4 Emergency Telephone Number

Emergency telephone number	+91-2641-618086-87 (Security)
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2. Hazard Identification

2.1 Classification of the substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification acc. to GHS

Skin Corrosion/Irritation	Category 2 - (H315)
Eye Damage/Irritation	Category 2 - (H319)
STOT – Single Exposure	Category 3 - (H335)

2.2 Label elements

Pictogram



Signal Word

WARNING

Hazard Statements

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary Statements

Prevention

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands, skin, face thoroughly after handling.

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

P280 Wear protective gloves/eye protection/face protection.

Response

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

P312 Call a POISON CENTRE/doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see ... on this label)

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

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

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.

Storage

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

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

The substance does not meet the criteria for a PBT or vPvB substance.

3. Composition/information on Ingredients

3.1. Substance

Chemical name	CAS-No	EC No	Weight %	EU - GHS Substance Classification (REGULATION (EC) No 1272/2008)	REACH No.
Calcium Fluoride	7789-75-5	232-188-7	<=100	Skin Irrit; Eye Irrit; STOT SE; H315, H319, H335	No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

4. First aid measures

4.1 Description of first-aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Skin contact	Wash off immediately with soap and plenty of water for at least for 15 minutes. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.
Ingestion	Do NOT induce vomiting. Rinse mouth immediately and drink large quantities of water. Never give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Excess exposure to fluoride can lead to a bone disease known as skeletal fluorosis. Over many years, this can result in pain and damage to bones and joints. The bones may become hardened and less elastic, increasing the risk of fractures.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing agents appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No additional information available

5.2 Special hazards arising from the substance or mixture

Special Hazard Thermal decomposition (above 1400 °C) can lead to release of irritating gases and vapours.

Hazardous Combustion Products No additional information available.

5.3 Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in properly labelled containers. Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposability considerations".

6.4 Reference to other sections

Hazardous combustion products: see section 10. Personal Protective equipment: See section 8. Incompatible materials: see section 8. Incompatible Material: see section 10. Disposal Consideration: see section 13

7. Handling and Storage

7.1 Precautions for Safe Handling

7.1.1 Handling

Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.1.2 Hygiene measures

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep container/package tightly closed and in a well-ventilated place.

7.3 Specific end uses

Manufacture of substances.

8. Exposure Controls/ Personal Protection

8.1 Control Parameters

Exposure Limits Apply technical measures to comply with the occupational exposure

Component	ACGIH TLV	NIOSH IDLH	OSHA PEL
Calcium Fluoride (CAS : 7789-75-5)	TWA: 2.5 mg/m ³	IDLH: 250 mg/m ³ TWA: 2.5 mg/m ³	TWA 2 mg/m ³

Derived No Effect level (DNEL) No information available

Predicted No Effect Concentration No information available

8.2 Exposure Controls

Appropriate Engineering Control Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to work station. If applicable, use process enclosure, local exhaust ventilation, or other engineering controls to maintain airborne level below recommended exposure limits. If exposure limits have not been established maintain airborne levels to acceptable level.

Personal protective equipment

Eye protection Use tightly sealed safety glasses. Chemical resistant goggles must be worn.

Skin protection Impervious long-sleeved clothing. Preventative skin protection is recommended.

Hand protection Wear suitable protective gloves.

Respiratory protection For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or symptoms are experienced.

Environmental exposure controls Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Solid
Physical state White Powder or Cubic Crystal

Odor Odorless
Odor threshold No information available

Property	VALUES	Remarks/ Method
pH	No information available	
Melting point/freezing point	1403°C	
Boiling Point/Range	2500°C	
Flash Point	Not Applicable	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability or explosive limits		
Upper	No information available	
Lower	No information available	
Density	3.18 g/cm ³	
Vapor Density	No information available	
Vapor pressure (air = 1)	No information available	

Water solubility	15 mg/L ; Very slightly soluble
Solubility in Other Solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity Kinematics	Not Applicable
Viscosity Dynamics	Not Applicable
Oxidizing properties	No information available
Explosive properties	No information available
Molecular Formula	CaF ₂
Molecular Weight	78.08 g/mol

9.2 OTHER INFORMATION

VOC Content	No information available
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10. Stability and Reactivity

10.1 Reactivity

None known; based on available information

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reaction

Hazardous polymerization does not occur

10.4 Conditions to avoid

Keep away from direct sunlight. To avoid thermal decomposition, do not overheat. Exposure to moisture.

10.5 Incompatible Materials

No additional information available

10.6 Hazardous Decomposition Products

Thermal decomposition (above 1400 °C) can lead to release of irritating gases and vapors.

11. Toxicological Information

11. 1 Information on Toxicological Effects

Acute toxicity

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium Fluoride (CAS: 7789-75-5)	>2000 mg/kg	-	> 5 070 mg/m ³ air – 4hr

Source: ECHA

Local effect

Inhalation	May cause respiratory tract irritation
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Eye contact	Causes eye irritation
Skin contact	Causes skin irritation
Ingestion	Based on available information, the classification criteria are not met.

Chronic toxicity

Skin Corrosion/Irritation	Causes skin irritation
Eye damage/irritation	Causes eye irritation
Sensitization	Based on available information, the classification criteria are not met.
Mutagenic effects	Based on available information, the classification criteria are not met.
Carcinogenic effects	Based on available information, the classification criteria are not met.
Reproductive effects	Based on available information, the classification criteria are not met.
STOT - Single Exposure	May cause respiratory tract irritation
STOT - repeated exposure	Based on available information, the classification criteria are not met.
Aspiration hazard	Based on available information, the classification criteria are not met.

Other Hazard

Excess exposure to fluoride can lead to a bone disease known as skeletal fluorosis. Over many years, this can result in pain and damage to bones and joints. The bones may become hardened and less elastic, increasing the risk of fractures.

12. Ecological Information

12.1 Ecotoxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Chemical Name	Toxicity to Fish	Toxicity to Daphnia and other aquatic invertebrate	Toxicity to Algae
Calcium Fluoride (CAS: 7789-75-5)	LC50(96HR) = >100 mg/L	EC50(96HR) = 26 - 48 mg/L	EC50 (72HR) = 88.32 mg/L

Source: ECHA

12.2 Persistence and Degradability

Biodegradability is not applicable parameter for inorganic materials.

12.3 Bioaccumulative Potential

Bioconcentration Factor = 64 l/kg ww

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

In accordance with Annex XIII, a PBT assessment is not required for inorganic substances.

12.6 Other Adverse Effects

No other adverse effects identified.

13. Disposal Considerations

13.1 Waste Treatment Methods

Waste from Residues / Unused Products	Disposal should be in accordance with applicable local/regional/national and international laws and regulations.
Contaminated packaging	Do not reuse empty containers. Dispose of this container to hazardous or special waste collection point.

14. Transport Information

IMDG/IMO Not Regulated

IATA/ICAO Not Regulated

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

International Inventories

TSCA	Complies
EINECS/ ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

16. Other Information

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory tract irritation

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Revision Number: 01

Revision Note Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

End of Safety Data Sheet