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Date of First Issue. June 2008

CALCIUM FLUORIDE

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 91/155/EEC, 2006/1907/EC and 2006/121/EC

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

Identification of the substance or preparation:

CALCIUM FLUORIDE

Company Identification:

Francis Flower

Gurney Slade, Nr Bath, Somerset, BA3 4TE

Telephone:

++ 44 (0) 1 749 841146

Fax:

++ 44 (0) 1 749 841285

Emergency Phone No.

++ 44 (0) 1 749 841146

Use of Substance / Preparation:

2. HAZARDS IDENTIFICATION

INGESTION

Low oral toxicity.

INHALATION

High concentrations of dust may be irritant to the respiratory tract

Repeated exposure by inhalation to levels well above the occupational exposure limit may produce adverse effects on the bones (fluorosis). This may also occur following the repeated ingestion of small amounts

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 CHEMICAL COMPOSITION

HAZARDOUS INGREDIENT(S)	%W/W	CAS No.	EC No.	EC Classification	
Contains no hazardous ingredients (93/112/EEC)		007789-75-5			
Calcium Fluoride	CaF ₂	70%	7789-75-5	232-188-7	
Calcium Sulphate	CaSO ₄	13%	7778-18-9	231-900-3	
Silica	SiO ₂	8%	7631-86-9	231-545-4	
Calcium Carbonate	CaCO ₃	7%	471-34-1	207-439-9	
Calcium Hydroxide	Ca(OH) ₂	4%	1305-62-0	215-137-3	X1, R3, R41

For full text of R phrases see section 15.

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4. FIRST AID MEASURES



- | | |
|--------------------------------------|---|
| 4.1 Inhalation | Remove patient from exposure, keep warm and at rest
If symptoms develop, obtain medical attention |
| 4.2 Skin Contact | Wash skin with soap and water |
| 4.3 Eye Contact | Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes
Obtain medical attention |
| 4.4 Ingestion | Wash out mouth with water and give 200-300ml (half a pint) of water to drink
If symptoms develop, obtain medical attention |
| 4.5 Further Medical Treatment | Symptomatic treatment and supportive therapy as indicated |

5. FIRE-FIGHTING MEASURES

- | | |
|---|---|
| Non Combustible | |
| Extinguishing Media | As appropriate for surrounding fire |
| Fire Fighting Protective Equipment | A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|--|---|
| 6.1 Personal Precautions | Protect against dust |
| 6.2 Environmental Exposure Controls | Spillages or other uncontrolled discharges into water courses must be alerted to the Environment Agency or other appropriate regulatory body. |
| 6.3 Methods for cleaning up | Clear up spillage, use vacuum suction unit if available, if not shovel into waste drums |

7. HANDLING AND STORAGE

- | | |
|---------------------|--|
| 7.1 HANDLING | Avoid prolonged skin contact,
Atmospheric levels should be controlled in compliance with the occupational exposure limit. |
| 7.2 STORAGE | No special requirements |

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where a cartridge/canister respirator is suitable use: Type P3 CEN143. Check with protective equipments manufacturer's data.

OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Fluoride (as F)	-	-	2.5			OES

WEL: Workplace Exposure Limit (UK HSE EH40)



8.1 Respirators

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.



8.2 Eye Protection

Wear suitable eye/face protection



8.3 Hand and Skin Protection

Wear suitable gloves and clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Free flowing powder.
Colour	Off-white
Odour	Odourless
pH (Value)	7-8 aqueous slurry
Melting Point (°C)	1360
Solubility (Water)	Insoluble
Specific Gravity	3.18

10. STABILITY AND REACTIVITY

Hazardous Decomposition product(s)	Thermal decomposition at temperatures above 1300°C can lead to the evolution of hydrogen fluoride
Hazardous Reactions	Evolves hydrogen fluoride in contact with strong acid at elevated temperatures



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11. TOXICOLOGICAL INFORMATION

11.1 Ingestion	Low oral toxicity
11.2 Inhalation	High concentration of dust may be irritant to the respiratory tract
11.3 Skin Contact	Repeated or prolonged contact may result in dryness leading to irritation
11.4 Eye Contact	May cause physical irritation
11.5 Long Term Exposure	Repeated exposure by inhalation to levels well above the occupational exposure limits may produce adverse effects on the bones (fluorosis). This may also occur following the repeated ingestion of small amounts

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution	Solid with low volatility. The substance is essentially insoluble in water
Persistence and Degradation	The substance is persistent in the environment
Toxicity	Low toxicity to aquatic organisms
Effect on Effluent Treatment	The substance is insoluble in water and can therefore be removed from aqueous medium by sedimentation and filtration process at an effluent treatment plant

13. DISPOSAL CONSIDERATIONS

13.1 Regulatory information	Disposal should be in accordance with local, state or national legislation.
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14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport

15. REGULATORY INFORMATION

EC Classification	Not classified as Dangerous for Supply/Use
Hazard Symbol	
Risk Phrases	
Safety Phrases	

INTERNATIONAL INVENTORIES

EINECS (Europe)	232-188-7
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16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 93/112/EC

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