

CALCIUM FLUORIDE**1323**

March 1999

CAS No: 7789-75-5
RTECS No: EW1760000Calcium difluoride
CaF₂
Molecular mass: 78.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation		Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest.
Skin		Protective gloves.	Rinse and then wash skin with water and soap.
Eyes		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth.

SPILLAGE DISPOSAL

Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: P2 filter respirator for harmful particles.

PACKAGING & LABELLING**EMERGENCY RESPONSE****SAFE STORAGE**

Separated from mineral acids.

IPCSInternational
Programme on
Chemical SafetyPrepared in the context of cooperation between the International
Programme on Chemical Safety and the European Commission ©
IPCS 2005**SEE IMPORTANT INFORMATION ON THE BACK.**

IMPORTANT DATA**Physical State; Appearance**

COLOURLESS CRYSTALS OR WHITE HYGROSCOPIC POWDER

Chemical dangers

On combustion, forms toxic fumes of fluoride. Reacts with mineral acids to produce corrosive fumes.

Occupational exposure limits

TLV: (fluorides, as F) 2.5 mg/m³ as TWA; A4 (not classifiable as a human carcinogen); BEI issued; (ACGIH 2004).

MAK: (as F) (Inhalable fraction) 1 mg/m³; Peak limitation category: I(4); skin absorption (H); Pregnancy risk group: C; (DFG 2005).

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.

PHYSICAL PROPERTIES

Boiling point: 2500/C
Melting point: 1403/C

Density: 3.2 g/cm³
Solubility in water: none at 20/C

ENVIRONMENTAL DATA**NOTES**

Calcium fluoride minerals are mined as fluorite and fluospar.
Card has been partly updated in April and October 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information