# SAFETY DATA SHEET CALCIUM FLUORIDE OPTICAL CRYSTAL According to Regulation (EC) No.1907/2006 (REACH)



# **1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY**

CHEMICAL NAME: SYNONYMS, TRADE NAMES: DESCRIPTION: USAGE: APPEARANCE: SUPPLIER:

### 2. HAZARDS IDENTIFICATION

No Hazardous Product as specified in Directive 67/548/EEC



# 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS number	%	EC number (EINECS)	EU index
Calcium Fluoride	7789-75-5	100%	232-188-7	Not listed

### 4. FIRST AID MEASURES

EYES:	Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
SKIN:	Wash off thoroughly with soap and water. Gently dry area with clean towel. Remove contaminated clothing and wash clothing
	before re-use.
INHALATION:	Remove to uncontaminated area. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained
	personnel may administer oxygen. Keep affected person warm and at rest. Obtain medical attention.
INGESTION:	Induce vomiting if conscious and as directed by a properly qualified personnel. Wash out mouth thoroughly with water. NEVER
	MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Obtain Medical Attention Immediately!

### 5. FIRE FIGHTING MEASURES

FLASH POINT:Not Ignitable. Not ApplicableUNUSUAL FIRE HAZARDS:May evolve toxic fumes in a fire.EXTINGUISHING MEDIA:As appropriate to the environment

### 6. ACCIDENTAL RELEASE MEASURES

CONTAMINATION CLEANUP: Wear suitable protective clothing & equipment as listed under Exposure / Personal protection. Take up and containerize for proper disposal. Avoid making dust. Containerize any cleaning materials used for proper disposal.

### 7. HANDLING AND STORAGE

USAGE PRECAUTIONS: Avoid skin contact. Protect against physical damage and avoid generating dust. STORAGE PRECAUTIONS: Keep away from foodstuffs. Keep away from acids and strong bases.

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UN number Not Listed

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# 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Protective gloves made of polyvinyl alcohol (PVA) are required. Use of a laboratory coat is suggested. Safety goggles or safety glasses with side shields are required if there is any possibility of chipping or dust creation. Respirators must be worn when the threshold limit is exceeded. Provide adequate general mechanical ventilation, and local exhaust ventilation.

OCCUPATIONAL EXPOSURE LIMITS (OEL) = 2.5 mg/m<sup>3</sup> as Fluoride in 8 hour Time Weighted Average (TWA)

# 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Clear glassy geometric shapes, no odour.	
pH IN AQUEOUS SOLUTION:	Not determined	
BOILING POINT (760mm Hg)	~ 2500°C	
MELTING POINT:	1402°C	
FLASH POINT:	Not Applicable	
FLAMMABILITY:	Not Applicable	
EXPLOSIVE PROPERTIES:	Not Applicable	
SPECIFIC GRAVITY:	3.18	
VAPOUR PRESSURE:	Not Applicable	
SOLUBILITY IN WATER:	Practically insoluble; 0.0017mg/100ml H <sub>2</sub> O at 20°C	

<b>10. STABILITY AND REACTIVITY</b> STABILITY: HAZARDOUS DECOMPOSITION: MATERIALS TO AVOID:	Stable under normal conditions of storage and use. Liberates toxic hydrogen fluoride gas in contact with mineral acid. Acids, Oxidisers, Concentrated Hot Sulphuric Acid			
11. TOXICOLOGICAL INFORMATION				

4250 mg/kg (oral, rat)			
No evidence of carcinogenic properties			
No evidence of mutagenic or teratogenic effects			
If swallowed causes nausea, vomiting, stomach pains and diarrhoea. Also harmful in contact with skin. Particular			
care must be exercised when machining and creating dust or particles.			

### **12. ECOLOGICAL INFORMATION**

The following applies to inorganic fluorides in general: biological effects: fish: L idus LC50 660mg/l; bacteria:Ps putida toxic from 231 mg/l up; algae: Sc quadricauda toxic from 249mg/l up; protozoa:E.sulcatum toxic from 101mg/l up; U parduczi toxic from 71mg/l up (all values as NaF). Hazard to drinking water.

### 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Chemical residues are generally classified as special waste, and are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

# **14. TRANSPORT INFORMATION**

Not Subject to Transport Regulations

### **15. REGULATORY INFORMATION**

Hazard Symbols:	None
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Risk Phrases: None

Safety Phrases: S22-24/25 - Do not breathe dust. Avoid contact with skin and eyes.

### **16. OTHER INFORMATION**

**REVISION DATE:** Feb 2012

2 Supercedes issue of June 2007 (Changes in Section: 1, 2, 3, (2 & 3 reversed), 8, 14, 15

The above information is believed to be correct but does not purport to be all inclusive and must be used only as a guide.

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