

SAFETY DATA SHEET
CALCIUM FLUORIDE OPTICAL CRYSTAL

Printed: 31 March 2004

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

CHEMICAL NAME: Calcium Fluoride
SYNONYMS, TRADE NAMES: CaF₂, Fluorite
DESCRIPTION: Inorganic Crystalline pieces
USAGE: Optical Material
APPEARANCE: Clear transparent solid. No odour
SUPPLIER: CRYSTRAN LTD, 1 Broom Road Business Park, Poole, Dorset UK BH12 4PA

2. COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT NAME | CAS No. | % | CLASS | HEALTH | RISK | UN No. |
|------------------|-----------|------|-------|--------|------|--------|
| Calcium Fluoride | 7789-75-5 | 100% | N.R. | N.R. | R22 | - |

3. HAZARDS INFORMATION

If swallowed can cause nausea, vomiting, stomach pains and diarrhoea. Also harmful in contact with eyes & skin. Particular care must be exercised when machining and creating dust or particles.

4. FIRST AID MEASURES

GENERAL: Consult a Physician for specific advice
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 Applicable
AUTO IGNITION TEMP: Not Applicable
EXTINGUISHING MEDIA: Water, CO₂, foam or dry chemical.
UNUSUAL FIRE HAZARDS: May evolve toxic fumes in a fire.

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

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.

When handling quantities of this material, be sure to wear appropriate protective equipment as described. Eye wash should be readily available. Was thoroughly after handling. Do not take internally. Avoid breathing dust when generated. For persons with sensitive existing medical conditions, medical advice should be sought before employing on tasks involving exposure to this material.

EXPOSURE LIMITS OES, 2.5 mg/m³ F Long-term 8 hour TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear glassy geometric shapes, no odour.
pH IN AQUEOUS SOLUTION: Not determined
BOILING POINT (760mm Hg) : Not known
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 H₂O at 20°C

CRYSTRAN LTD

1, Broom Road Business Park, Poole, Dorset, UK BH12 4PA TEL: +44 1202 307650

Email: sales@crystran.co.ukwww.crystran.co.uk

FAX +44 1202 307651

Registered in England No.2863378