

# SAFETY DATA SHEET

## CALCITE OPTICAL CRYSTAL

According to Regulation (EC) No.1907/2006 (REACH)



Revision 2016 : Issued 16<sup>th</sup> August 2016

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

#### 1.1. PRODUCT IDENTIFIERS:

Product Name: Calcite Optical Crystal  
Synonyms, Trade Names: Calcium Carbonate, Calcite, CaCO<sub>3</sub>

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST  
Identified Uses: Optical Material for manufacture of Optical Components.

#### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: **CRYSTRAN LTD**, 1 Broom Road Business Park, Poole, Dorset UK BH12 4PA  
☎ +44 1202 307650

#### 1.4. EMERGENCY TELEPHONE NUMBER

Emergency Phone: ☎ +44 1202 307650 (Monday to Friday 08:30 to 17:00 GMT)  
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. The attending health professional will be able to contact the National Poisons Information Service.

### 2. HAZARDS IDENTIFICATION

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

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

#### 2.2. LABEL ELEMENTS

Precautionary Statements:  
P262 Do not breathe dust/fume/gas/mist/vapours/spray.

#### 2.3. OTHER HAZARDS

None



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. SUBSTANCES

Component Name	CAS number	%	EC number (EINECS)	EU index	UN number
Calcium Carbonate	471-34-1	100%	207-439-9	-	-

### 4. FIRST AID MEASURES

#### 4.1. DESCRIPTION OF FIRST AID MEASURES

GENERAL: Consult a doctor for specific advice.  
EYES: Irrigate thoroughly with water for at least 15 minutes. If discomfort persists obtain medical attention.  
SKIN: Wash thoroughly with soap and water.  
INHALATION: Remove to fresh air. Obtain medical attention.  
INGESTION: Wash out mouth thoroughly with water. In severe cases obtain Medical Attention.

#### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Refer to Section 2.2 and to section 11.

#### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No Data.

### 5. FIRE FIGHTING MEASURES

#### 5.1. EXTINGUISHING MEDIA

This product does not burn.

#### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None Known

#### 5.3. ADVICE FOR FIREFIGHTERS

Use breathing apparatus if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective clothing & equipment as listed under Section 8. Avoid making dust.

#### 6.2. ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage. Do not let product enter drains. Do not discharge to the environment.

#### 6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Take up and containerize for proper disposal. Containerize any cleaning materials used for proper disposal.

#### 6.4. REFERENCE TO OTHER SECTIONS

Dispose as in Section 13.

### 7. HANDLING AND STORAGE

#### 7.1. PRECAUTIONS FOR SAFE HANDLING:

7.2. Protect against physical damage and avoid generating dust.

#### 7.3. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

No special precautions needed.

#### 7.4. SPECIFIC END USES

Optical Material for Manufacture of Optical Components.

## CRYSTRAN LTD

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Registered in England No.2863378

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### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

#### 8.1. CONTROL PARAMETERS

ACGIH TLV (United States 1/2009)

OCCUPATIONAL EXPOSURE LIMITS (OEL) = 10mg/m<sup>3</sup> Inhalable; Particulates (Insoluble) (PNOS) 8 hour Time Weighted Average (TWA)  
= 4mg/m<sup>3</sup> Respirable; Particulates (Insoluble) (PNOS) 8 hour Time Weighted Average (TWA)

#### EXPOSURE CONTROLS

Protective gloves made of 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. Wash hands immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Clear glassy geometric shapes, no odour.	FLASH POINT:	Not Applicable
BOILING POINT (760mm Hg)	Not Applicable. Decomposes.	FLAMMABILITY:	Not Applicable
MELTING POINT:	824°C (decomposition)	EXPLOSIVE PROPERTIES:	Not Applicable
SPECIFIC GRAVITY:	2.71 g/mL	VAPOUR PRESSURE:	Negligible at 25°C
SOLUBILITY IN WATER:	Insoluble 0.0014g/100g H <sub>2</sub> O at 25°C	pH IN AQUEOUS SOLUTION:	Not determined

#### 9.2. OTHER SAFETY INFORMATION

None

### 10. STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

Reacts with mineral acids. Generates carbon dioxide gas

#### 10.2. CHEMICAL STABILITY

Stable under normal conditions of storage and use.

#### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None known

#### 10.4. CONDITIONS TO AVOID

Avoid strong acids and oxidising agents

#### 10.5. INCOMPATIBLE MATERIALS

Strong Mineral Acids.

#### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Normally none.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Animal experiments have shown that lungaveolitis may occur after subacute high exposure (50mg/m<sup>3</sup>) to dust. No toxicological effects were observed after 4 weeks subacute exposure at 10mg/m<sup>3</sup>. Nevertheless, particular care should be exercised when machining and creating dust or particles.

TOXIC DOSE - LD50 > 3160 mg/kg (oral/rat)

CARCINOGENICITY: No evidence of carcinogenic properties.

MUTAGENICITY/TERATOGENICITY: No evidence of reproductive effects.

### 12. ECOLOGICAL INFORMATION

#### 12.1. TOXICITY

No Data

#### 12.2. PERSISTENCE AND DEGRADABILITY

No Data

#### 12.3. BIOACCUMULATIVE POTENTIAL

No Data

#### 12.4. MOBILITY IN SOIL

No Data

#### 12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Not required or conducted

#### 12.6. OTHER ADVERSE AFFECTS

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. WASTE TREATMENT METHODS

Can be disposed of as ordinary refuse.

### 14. TRANSPORT INFORMATION

#### 14.1. UN NUMBER: None

#### 14.2. UN PROPER SHIPPING NAME:

Not subject to transportation regulations.

#### 14.3. TRANSPORT HAZARD CLASS: None

#### 14.4. PACKING GROUP: None

#### 14.5. ENVIRONMENTAL HAZARDS: None

#### 14.6. SPECIAL PRECAUTIONS FOR USER: None

#### 14.7. TRANSPORT IN BULK MARPOL / IBC: No Data

### 15. REGULATORY INFORMATION

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

TSCA: Not determined

### 16. OTHER INFORMATION

REVISION DATE: 15<sup>th</sup> August 2016 ©2016 Crystran Ltd.

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

## CRYSTRAN LTD

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