SAFETY DATA SHEET

SILICON OPTICAL CRYSTAL

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



Revision 2016: Issued 16th August 2016

AIS PRODUCT IDENTIFIER

FLAMMABILT`

PHYSICAL HAZARD

PERSONAL PROTECTION B

IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1. PRODUCT IDENTIFIERS:

Product Name: Silicon Optical Crystal

Synonyms, Trade Names:

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Optical Material for manufacture of Optical Components. Identified Uses:

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

2 +44 1202 307650 (Monday to Friday 08:30 to 17:00 GMT) Emergency Phone:

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

Causes skin irritation H315 H319 Causes serious eve irritation.

H332 Harmful if inhaled

Precautionary Statements:

Do not breathe dust/fume/gas/mist/vapours/spray.

2.3. OTHER HAZARDS

COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

EC number (EINECS) Component Name CAS number EU index UN number

Silicon 7440-21-3 100% 231-130-8

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.

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

1, Broom Road Business Park, Poole, Dorset, UK BH12 4PA FAX +44 1202 307651 TEL: +44 1202 307650 Email: sales@crystran.co.uk www.crystran.co.uk 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/m3 Inhalable; Particulates (Insoluble) (PNOS) 8 hour Time Weighted Average (TWA) = 4mg/m³ 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.

PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Grey-black geometric shapes, no odour. APPEARANCE: FLASH POINT: Not Applicable 2355°C BOILING POINT (760mm Hg) FLAMMABILITY: Not Applicable MELTING POINT: 1410°C EXPLOSIVE PROPERTIES: Not Applicable SPECIFIC GRAVITY: VAPOUR PRESSURE: Negligible at 25°C 2.33 g/mL SOLUBILITY IN WATER: Insoluble pH IN AQUEOUS SOLUTION: Not determined

9.2. OTHER SAFETY INFORMATION

None

10. STABILITY AND REACTIVITY

10.2. CHEMICAL STABILITY

10.1. REACTIVITY

Reacts slowly with mineral acids.

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. 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/m3) to dust. No toxicological effects were observed after 4 weeks subacute exposure at 10mg/m3. 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

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

14.1. UN NUMBER: None

14.4. PACKING GROUP: None

14.2. UN PROPER SHIPPING NAME: Not subject to transportation regulations. 14.5. ENVIRONMENTAL HAZARDS: None

14.3. TRANSPORT HAZARD CLASS: 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: Listed in the TCSA Inventory

16. OTHER INFORMATION

REVISION DATE: 15th 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

1, Broom Road Business Park, Poole, Dorset, UK BH12 4PA FAX +44 1202 307651 TEL: +44 1202 307650

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