| | | | | | | Revision 2016 : Issued 10th Mo | ıy 2016 | |
|-----|---|---|---------------------------|----------------------------------|----------------------|--|---------|--|
| 1. | IDENTIFICATION | | NCE AND ' | THE COMPANY | | | | |
| | 1.1. PRODUCT IDENTI Product Name: | | lver Chloride O | atical Crystal | | | | |
| | Product Name: Silver Chloride Optical Crystal Synonyms, Trade Names: AgCl | | | | | | | |
| | 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 2 +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 | s product, please co | ontact your doctor or local hospital a | ccident | |
| | and emergency department. The attending health professional will be able to contact the National Poisons Information Service. | | | | | | | |
| 2 | . HAZARDS IDENTIFICATION | | | | | | | |
| 4. | 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE | | | | | | | |
| | Harmful by ingestion, inhalation and skin contact. Prolonged exposure may result in argyria, a bluish discolouration of the skin. Irritating to eyes and may | | | | | | | |
| | irritate skin. Dangerou | | | | | | | |
| | 2.2. LABEL ELEMENTS Signal Word: War | S ming | | | | HMIS PRODUCT IDENTIFIER | | |
| | | y be corrosive to metals. | | | <₩ | HEALTH 1 | | |
| | | y toxic to aquatic life. | | | - | FLAMMABILTY 0 | | |
| | | | | | | PHYSICAL HAZARD 1 | | |
| | Precautionary Stateme | | | | | PERSONAL PROTECTION B | | |
| | P273 Avo 2.3. OTHER HAZARDS | oid release to the environr | nent. | | | | | |
| | | skin and respiratory tract | | | | Safety Glasses Gloves | | |
| | | 1 | | | | | | |
| 3. | COMPOSITION/IN | FORMATION ON | INGREDI | ENTS | | | | |
| | 3.1. SUBSTANCES Component Name | CAS number | % | EC number (ENECS) | EU index | UN number | | |
| | Silver Chloride | 7783-90-6 | % 100% | EC number (EINECS) 232-033-3 | EU IIIdex | 3077 | | |
| | Shiver childhau | 1100 70 0 | 10070 | 202 000 0 | | 2011 | | |
| 4. | FIRST AID MEASUR | | | | | | | |
| | 4.1. DESCRIPTION OF FIRST AID MEASURES | | | | | | | |
| | GENERAL: Consult a doctor for specific advice. | | | | | | | |
| | EYES:Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.SKIN:Wash thoroughly with soap and water. Remove contaminated clothing and wash clothing before re-use. | | | | | | | |
| | INHALATION: Remove from exposure, rest and keep warm. In severe cases seek medical attention. | | | | | | | |
| | INGESTION: Wash out mouth thoroughly with water and give plenty to drink. 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 M | | | | | | | |
| | 5.1. EXTINGUISHING N | | | | | | | |
| | This product does not burn. 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE | | | | | | | |
| | Material may evolve toxic fumes in a fire. Hydrogen Chloride gas, Silver oxides. | | | | | | | |
| | ADVICE FOR FIREFIGHTERS | | | | | | | |
| | Use breathing apparate | us if necessary. | | | | | | |
| 6 | ACCIDENTAL REI | I FASE MEASURI | 78 | | | | | |
| υ. | 6.1. PERSONAL PRECA | UTIONS. PROTECTI | <u>215</u> VE EOUIPMEN | T AND EMERGENCY PRO | CEDURES | | | |
| | 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 S | | | | | | | |
| | 7.1. PRECAUTIONS FO | | with material D | rotect from light. Avoid generat | ting dust | | | |
| | 7.2. CONDITIONS FOR | SAFE STORAGE, INC | LUDING ANY | INCOMPATIBILITIES | ung dust. | | | |
| | | | | ell closed and protected from di | irect sunlight and m | noisture. | | |
| | 7.3. SPECIFIC END US | | - | - | - | | | |
| | | Ianufacture of Optical Co | mponents. | | | | | |
| С | RYSTRAN LTD | | | | | | | |
| | Broom Road Business | | et, UK BH12 | 4PA TEL: +44 120 | | FAX +44 1202 307651 | | |
| Er | nail: <u>sales@crystran.c</u> | <u>o.uk</u> | <u>w</u> | ww.crystran.co.uk | | Registered in England No.286 | 3378 | |
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| 1/2 | | | | | | | | |
| | | | | | | | | |

SAFETY DATA SHEET

SILVER CHLORIDE OPTICAL CRYSTAL

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

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SPECIALIST OPTICS

VISIBI E

Revision 2016 : Issued 10th May 2016

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE : Clear white/grey crystals or powder. FLASH POINT: Not Applicable BOILING POINT (760mm Hg) 1550°C FLAMMABILITY: Not Applicable EXPLOSIVE PROPERTIES: MELTING POINT: 457°C Not Applicable SPECIFIC GRAVITY: 5.59 g/mL VAPOUR PRESSURE: Negligible at 25°C SOLUBILITY IN WATER: Practically Insoluble pH IN AQUEOUS SOLUTION: Not determined 9.2. OTHER SAFETY INFORMATION None 10. STABILITY AND REACTIVITY 10.3. POSSIBILITY OF HAZARDOUS 10.1. REACTIVITY Strong Mineral Acids. Strong oxidising Darkens on exposure to light REACTIONS materials 10.6. HAZARDOUS DECOMPOSITION None known **10.2. CHEMICAL STABILITY** 10.4. CONDITIONS TO AVOID PRODUCTS Stable under normal conditions of storage Aluminium, Ammonia, Alkali metals, May evolve toxic fumes in a fire. Peroxy compounds, Sulpoxides. and use 10.5. INCOMPATIBLE MATERIALS 11. TOXICOLOGICAL INFORMATION 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS Harmful by ingestion, inhalation and skin contact. Prolonged exposure may result in argyria, a bluish discolouration of the skin. Irritating to eyes and may

irritate skin Particular care must be exercised when machining and creating dust or particles. TOXIC DOSE - LD50 > 10g/kg CARCINOGENICITY: No evidence of carcinogenic properties.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

The following applies to silver compounds in general: biological effects: silver ions toxic for aquatic organisms; bacteria: Ps. putida toxic from 0.006 mg/l up; protozoa: U. parduczi toxic from 0.1 mg/l up; arthropods: D. daphnia LC50: 0.5 mg/l; algae: M. aeruginosa toxic from 0.0007 mg/l up; Sc. quadricauda toxic from 0.009 mg/l up

12.2. PERSISTENCE AND DEGRADABILITY No Data

12.3. BIOACCUMULATIVE POTENTIAL

12.4. MOBILITY IN SOIL

No data

- No Data 12.5. RESULTS OF PBT AND vPvB ASSESSMENT Not required or conducted
- 12.6. OTHER ADVERSE AFFECTS Due to the poor solubility of the product, no harmful effects on aquatic organisms are to be expected when the product is handled and used with due care and attention.

13.1. WASTE TREATMENT METHODS

13. DISPOSAL CONSIDERATIONS

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 classified as dangerous according to EC Directives.

- 14.1. UN NUMBER: 3077
- 14.2. UN PROPER SHIPPING NAME:
- Environmentally Hazardous Substance, Solid, N.O.S. (Silver Chloride). 14.3. TRANSPORT HAZARD CLASS: 9

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE TSCA: Listed in the TSCA inventory

WHMIS: Not a controlled product under the Canadian Workplace Hazardous Materials Information System

16. OTHER INFORMATION

REVISION DATE: 10th May 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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FAX +44 1202 307651 Registered in England No.2863378



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SAFETY DATA SHEET

8.1. CONTROL PARAMETERS

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS (OEL) = 0.01 mg/m3 as Silver compounds Time Weighted Average (TWA) 8.2. 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.

MUTAGENICITY/TERATOGENICITY: No evidence of reproductive effects.

- 14.4. PACKING GROUP: III
- 14.5. ENVIRONMENTAL HAZARDS: Marine Pollutant 14.6. SPECIAL PRECAUTIONS FOR USER: None
- 14.7. TRANSPORT IN BULK MARPOL / IBC: No Data

