	CRYSTRAN
	BARUM FLUORIDE OPTICAL CRYSTAL According to Regulation (EC) No.1907/2006 (REACH)
	Revision 2015 : Issued 9th September 2015
1.	IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY
	1.1. PRODUCT IDENTIFIERS: Product Name: Barium Fluoride Optical Crystal
	Synonyms, Trade Names: BaF ₂ 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
	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 Class 6.1 poison. 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
	2.2. LABEL ELEMENTS Signal Word: Warning
	H302 Harmful if swallowed
	H315 Causes skin irritation H319 Causes serious eye irritation.
	H332 Harmful if inhaled PHYSICAL HAZARD 1
	Precautionary Statements: P262 Do not breathe dust/fume/gas/mist/vapours/spray.
	P264Wash thoroughly after handling.P270Do not eat, drink or smoke when handling this product
	1270 Do not cat, annik of sinoke when handning this product
	P301+P310IF SWALLOWED: Immediately call a poison centre or doctor. Rinse mouth.P304+P312IF INHALED: Call a poison centre or doctor/physician if you feel unwell.
	2.3. OTHER HAZARDS None
3.	COMPOSITION/INFORMATION ON INGREDIENTS
	3.1. SUBSTANCES Component Name CAS number % EC number (EINECS) EU index UN number
	Barium Fluoride 7787-32-8 100% 232-108-0 056-002-00-7 1564
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. Obtain medical attention.SKIN:Wash thoroughly with soap and water. Dry area with clean towel. Remove contaminated clothing and wash clothing before re-use.
	INHALATION: Remove to fresh air. 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 properly qualified personnel. Wash out mouth thoroughly with water. Never make an
	unconscious person vomit or drink fluids. Obtain Medical Attention Immediately!. 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 Material may evolve toxic fumes in a fire.
	5.3. ADVICE FOR FIREFIGHTERS
6	Use breathing apparatus if necessary.
0.	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.
C	RYSTRAN LTD
	Broom Road Business Park, Poole, Dorset, UK BH12 4PA TEL: +44 1202 307650 FAX +44 1202 307651
	politicales @envetren es uk

SAFETY DATA SHEET

1, Broom Road Business Park, Poole, Dorset, UK BH12 4PA TEL: +44 1202 307650 Email: <u>sales@crystran.co.uk</u> <u>www.crystran.co.uk</u> FAX +44 1202 307651 Registered in England No.2863378

CRYSTRAN

SAFETY DATA SHEET

BARUM FLUORIDE OPTICAL CRYSTAL

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



Revision 2015 : Issued 9th September 2015

	7.1. PRECAUTIONS FOR SAFE HANDLING:					
	Keep away from heat. Avoid contact with skin and eyes. Protect against physical damage. Avoid generating dust. 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES					
	Keep away from foodstuffs. Keep away from strong acids.					
	7.3. SPECIFIC END USES					
	Optical Material for Manufacture of Optical Com	ponents.				
8.	EXPOSURE CONTROL AND PERSONAL PROTECTION					
	8.1. CONTROL PARAMETERS					
	OCCUPATIONAL EXPOSURE LIMITS (OEL) = 0.5 mg/m^3 as Barium in 8 hour 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. Respirate		l limit is exceeded. Provide a	adequate general mechanical ventilation, and		
	local exhaust ventilation. Wash hands immediatel					
9.	PHYSICAL AND CHEMICAL PROPE	<u>RTIES</u>				
	9.1. INFORMATION ON BASIC PHYSICAL ANI	O CHEMICAL PROPERTIES				
	APPEARANCE : Clear glassy	geometric shapes, no odour.	FLASH POINT:	Not Applicable		
	BOILING POINT (760mm Hg) Not Applicab	le	FLAMMABILITY:	Not Applicable		
	MELTING POINT: 1355°C		EXPLOSIVE PROPERTIE	S: Not Applicable		
	SPECIFIC GRAVITY: 4.89 g/mL		VAPOUR PRESSURE:	Negligible at 25°C		
	SOLUBILITY IN WATER: Slightly solul	ble; 170mg/100ml H ₂ O at 23°C	pH IN AQUEOUS SOLUT	ION: Not determined		
	9.2. OTHER SAFETY INFORMATION					
	None					
10	STABILITY AND REACTIVITY					
	10.1. REACTIVITY	10.3. POSSIBILITY OF HAZA	ARDOUS 10.5.	INCOMPATIBLE MATERIALS		
	Reacts with strong mineral acids.	REACTIONS		Strong Mineral Acids.		
		None known	10.6.	HAZARDOUS DECOMPOSITION		
	10.2. CHEMICAL STABILITY	10.4. CONDITIONS TO AVOI		PRODUCTS		
	Stable under normal conditions of storage	Avoid strong acids		Decomposition product is Hydrogen		
	and use			Fluoride gas.		
11	. TOXICOLOGICAL INFORMATION					
	11.1. INFORMATION ON TOXICOLOGICAL E					
	Toxic by ingestion and inhalation of dust, with		s system. Particular care mu	st be exercised when machining and creating		
	dust or particles. Inhalation of dust may irritate		c · · · ·			
	TOXIC DOSE - LD50 > 50 mg/kg (oral/rat)			S.		
10	MUTAGENICITY/TERATOGENICITY: S	ome evidence of reproductive effect	S.			
12	ECOLOGICAL INFORMATION					
	12.1. TOXICITY	12.5.	RESULTS OF PBT AND	vPvB ASSESSMENT		
	Danger to drinking water.	12 (Not required or conducted			
	12.2. PERSISTENCE AND DEGRADABILITY No Data	12.6.	OTHER ADVERSE AFFI			
	12.3. BIOACCUMULATIVE POTENTIAL			rganic fluorides in general: biological 50mg/l; bacteria:Ps putida toxic from 231		
	No Data		mg/l up; algae: Sc quadricat			
	12.4. MOBILITY IN SOIL			rom 101mg/l up; U parduczi toxic from		
	No Data			F). Hazard to drinking water.		
12	Tto Dutt		, mg up (un values us i val			
	DISPOSAL CONSIDERATIONS			, internet to animaling matching		
15	DISPOSAL CONSIDERATIONS					
13	13.1. WASTE TREATMENT METHODS	special waste, and are covered by				
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CRYSTRAN LTD

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING:

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2 4PA TEL: +44 1202 307650 www.crystran.co.uk FAX +44 1202 307651 Registered in England No.2863378