		According to	Regulation (EC) No.1907/2006 (	REACH)	VV VISIBLE IR SPECIALIST OPTICS
		/ loool alling to	(10gulalon (20) noncon/2000 (	Revisi	on 2015 : Issued 28 <sup>th</sup> October 2015
1.	<b>IDENTIFICATION OF T</b>	HE SUBSTANCE A	ND THE COMPANY		
	1.1. PRODUCT IDENTIFIERS:				
	Product Name:	Strontium Flu	oride Optical Crystal		
	Synonyms, Trade Names:	$SrF_2$	1 2		
	1.2. RELEVANT IDENTIFIED US	SES OF THE SUBSTAN	CE OR MIXTURE AND USES ADV	VISED AGAINST	
	Identified Uses:	Optical Mate	rial for manufacture of Optical Compo	onents.	
	1.3. DETAILS OF THE SUPPLIE				
	Company:	_	LTD, 1 Broom Road Business Park,	Poole, Dorset UK BH12 4F	PA
		☎ +44 1202	307650		
	1.4. EMERGENCY TELEPHONE			= 00 CD CD	
	Emergency Phone:		307650 (Monday to Friday 08:30 to 1		1 . 1 11
	Emergency Action:		of a medical enquiry involving this p cy department. The attending health		
		Information		ii piolessionai wili be able	e to contact the National Poisons
2	HAZARDS IDENTIFICAT		Service.		
4.	2.1. CLASSIFICATION OF THE		UDE		
			be exercised when machining and creater	eating dust or particles	
	2.2. LABEL ELEMENTS	d cycs. I articular care mus	be excretised when machining and ere	caring dust of particles.	
	Signal Word: Warning				
	H315 Causes skin ir	ritation			HMIS PRODUCT IDENTIFIER
	H319 Causes seriou	s eye irritation.			HEALTH 2
	H332 Harmful if inh	naled			FLAMMABILTY 0
	Precautionary Statements:				PHYSICAL HAZARD 0
	P262 Do not breath	e dust/fume/gas/mist/vapor	ırs/spray.		PERSONAL PROTECTION B
				4	7 T
			Il a poison centre or doctor. Rinse mou		
		o. Continue rinsing	n water for several minutes. Remove	e contact lenses, il present	and Glasses Gloves
	casy to u	o. Continue mising			
	2.3. OTHER HAZARDS				
	None				
3.	COMPOSITION/INFORM	ATION ON INGRE	DIENTS		
	3.1. SUBSTANCES				
	Component Name CAS	number %	EC number (EINECS)	EU index	UN number
	1	number % -48-4 100%	EC number (EINECS) 232-000-3	EU index	UN number
4.	Strontium Fluoride 7783 FIRST AID MEASURES	-48-4 100%		EU index -	UN number -
4.	Strontium Fluoride 7783	-48-4 100%		EU index -	UN number -
4.	Strontium Fluoride 7783   FIRST AID MEASURES   4.1. DESCRIPTION OF FIRST AI   GENERAL: Consult a doc	<b>ID MEASURES</b> tor for specific advice.	232-000-3	-	UN number -
4.	Strontium Fluoride 7783   FIRST AID MEASURES 4.1. DESCRIPTION OF FIRST AID GENERAL: Consult a doc   GENERAL: Consult a doc   EYES: Irrigate thorout	-48-4 100% <b>ID MEASURES</b> tor for specific advice. aghly with water for at leas	232-000-3 t 15 minutes. Obtain medical attentior	- L.	-
4.	Strontium Fluoride   7783     FIRST AID MEASURES   4.1. DESCRIPTION OF FIRST AID GENERAL:     GENERAL:   Consult a doc     EYES:   Irrigate thorou     SKIN:   Wash thoroug	-48-4 100% <b>ID MEASURES</b> tor for specific advice. ughly with water for at leas hly with soap and water. I	232-000-3 t 15 minutes. Obtain medical attention bry area with clean towel. Remove cor	- I. Itaminated clothing and was	- h clothing before re-use.
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SAFETY DATA SHEET

STRONTIUM FLUORIDE OPTICAL CRYSTAL

## **CRYSTRAN LTD**

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> RYSTRAN

VISIBLE · IR SPECIALIST OPTICS

SAFETY DATA SHEET

STRONTIUM FLUORIDE OPTICAL CRYSTAL

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



Revision 2015 : Issued 28th October 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 Components. 8. EXPOSURE CONTROL AND PERSONAL PROTECTION 8.1. CONTROL PARAMETERS OCCUPATIONAL EXPOSURE LIMITS (OEL) = 2.5 mg/m<sup>3</sup> 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 FLASH POINT: APPEARANCE : Clear glassy geometric shapes, no odour. Not Applicable BOILING POINT (760mm Hg) 2460°C FLAMMABILITY: Not Applicable MELTING POINT: 1400°C EXPLOSIVE PROPERTIES: Not Applicable SPECIFIC GRAVITY: 4.24 g/mL VAPOUR PRESSURE: Negligible at 25°C SOLUBILITY IN WATER: 0.12 g/100ml H<sub>2</sub>O at 27°C pH IN AQUEOUS SOLUTION: Not determined 9.2. OTHER SAFETY INFORMATION None 10. STABILITY AND REACTIVITY 10.1. REACTIVITY **10.3. POSSIBILITY OF HAZARDOUS 10.5. INCOMPATIBLE MATERIALS** REACTIONS Reacts with strong mineral acids. Strong Mineral Acids None known 10.6. HAZARDOUS DECOMPOSITION **10.2. CHEMICAL STABILITY** 10.4. CONDITIONS TO AVOID PRODUCTS Stable under normal conditions of storage Decomposition product is Hydrogen Avoid strong acids and use Fluoride gas. 11. TOXICOLOGICAL INFORMATION 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS Toxic by ingestion and inhalation of dust, with a cumulative effect. Affects nervous system. Particular care must be exercised when machining and creating dust or particles. Inhalation of dust may irritate respiratory system. TOXIC DOSE - LD50 > 10600 mg/kg (oral/rat) CARCINOGENICITY: No evidence of carcinogenic properties. MUTAGENICITY/TERATOGENICITY: No evidence of reproductive effects. **12. ECOLOGICAL INFORMATION** 12.6. OTHER ADVERSE AFFECTS 12.1. TOXICITY Hazard to drinking water. The following applies to inorganic fluorides in general: biological 12.2. PERSISTENCE AND DEGRADABILITY effects: fish: L idus LC50 660mg/l; bacteria:Ps putida toxic from 231 mg/l up; algae: Sc quadricauda toxic from 249mg/l up; No Data **12.3. BIOACCUMULATIVE POTENTIAL** protozoa:E.sulcatum toxic from 101mg/l up; U parduczi toxic from No Data 71mg/l up (all values as NaF). Hazard to drinking water. 12.4. MOBILITY IN SOIL No Data The following applies to strontium compounds in general: toxic for 12.5. RESULTS OF PBT AND vPvB ASSESSMENT aquatic organisms: fish: Salmo toxic from 1mg/l up; lethal from Not required or conducted 1500mg/l up in 2 weeks, from 10g/l in 1 day, fish-nutrient animals: toxic from 3500mg/l up (values calculated as Sr) 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: 14.5. ENVIRONMENTAL HAZARDS: None Not subject to transportation regulations. 14.6. SPECIAL PRECAUTIONS FOR USER: None 14.3. TRANSPORT HAZARD CLASS: 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 listed in the TSCA inventory **16. OTHER INFORMATION** REVISION DATE: 28th October 2015 ©2015 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**

7. HANDLING AND STORAGE

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