	S	AFETY DATA S	HEET 🔰 🔰	ODVOTDAN
		IM FLUORIDE OPTICA		UV · VISIBLE · IR SPECIALIST OPTICS
		rding to Regulation (EC) No.1907/2		2015 : Issued 20 <sup>th</sup> October 2015
1.	1. <u>IDENTIFICATION OF THE SUBSTAN</u> 1.1. PRODUCT IDENTIFIERS:	<u>CE AND THE COMPANY</u>		
	Product Name: Sodi	um Fluoride Optical Crystal		
	Synonyms, Trade Names: NaF 1.2. RELEVANT IDENTIFIED USES OF THE SU	BSTANCE OR MIXTURE AND USE	S ADVISED AGAINST	
	Identified Uses: Opti <b>1.3. DETAILS OF THE SUPPLIER OF THE SAF</b>	cal Material for manufacture of Optical (	Components.	
	Company: CRY	STRAN LTD, 1 Broom Road Business	Park, Poole, Dorset UK BH12 4PA	
	1.4. EMERGENCY TELEPHONE NUMBER	-44 1202 307650		
	Emergency Action: In the and	44 1202 307650 (Monday to Friday 08: the event of a medical enquiry involving emergency department. The attending rmation Service.	this product, please contact your do	
2.	2. HAZARDS IDENTIFICATION			
2.	2.1. CLASSIFICATION OF THE SUBSTANCE OF			
	Class 6.1 Poison. Poisonous by ingestion. Dust e must be exercised when machining and creating d		uses nausea, vomiting, stomach pains	and diarrhoea. Particular care
	2.2. LABEL ELEMENTS Signal Word: Warning		~	HMIS PRODUCT IDENTIFIER
	H301 Toxic if swallowed H315 Causes skin irritation			HEALTH 2
	H319 Causes serious eye irritation		· · · · · · · · · · · · · · · · · · ·	FLAMMABILTY 0
	Precautionary Statements: P262 Do not breathe dust/fume/gas/m	ist/vanours/snrav	$\mathbf{v}$	PHYSICAL HAZARD •
	P264 Wash thoroughly after handling			
	P270 Do not eat, drink or smoke when	n handling this product		Safety Glasses Gloves
	P301+P310 IF SWALLOWED: Immedia P302 +P352 IF ON SKIN: Wash with plet P303+P351+P338 IF IN EYES: Rinse cautiousl 2.3. OTHER HAZARDS			to do. Continue rinsing.
_	None			
3.	3. <u>COMPOSITION/INFORMATION ON I</u> 3.1. SUBSTANCES	<u>NGREDIENTS</u>		
	Component Name CAS number	% EC number (EINECS) 100% 231-667-8		UN number
4.	Sodium Fluoride 7681-49-4 4. FIRST AID MEASURES	100% 251-007-8	009-004-00-7	1690
	4.1. DESCRIPTION OF FIRST AID MEASURES			
		or at least 15 minutes. Obtain medical att		
	SKIN: Wash thoroughly with soap and INHALATION: Remove to fresh air. Perform a	water. Dry area with clean towel. Remo		
	administer oxygen. Keep affecte	ed person warm and at rest. Obtain medie	cal attention.	
		and as directed by properly qualified nything by mouth to an unconscious per-		
	4.2. MOST IMPORTANT SYMPTOMS AND EFF			
	Refer to Section 2.2 and to section 11. 4.3. INDICATION OF ANY IMMEDIATE MEDIC	CAL ATTENTION AND SPECIAL TH	REATMENT NEEDED	
5	No Data.			
5.	5. <u>FIRE FIGHTING MEASURES</u> 5.1. EXTINGUISHING MEDIA			
	This product does not burn.	CUDETANCE OD MIVTUDE		
	<b>5.2. SPECIAL HAZARDS ARISING FROM THE</b> Material may evolve toxic fumes in a fire.	SUBSTAINCE OR MILLI URE		
	5.3. ADVICE FOR FIREFIGHTERS None.			
6.	6. ACCIDENTAL RELEASE MEASURES			
	6.1. PERSONAL PRECAUTIONS, PROTECTIVE	EQUIPMENT AND EMERGENCY		
	Wear suitable protective clothing & equipment as <b>6.2. ENVIRONMENTAL PRECAUTIONS</b>	listed under Section 8. Avoid making du	.51.	
	Prevent further leakage or spillage. Do not let proc 6.3. METHODS AND MATERIALS FOR CONTA		environment.	
	Take up and containerize for proper disposal. Con		proper disposal.	
	<b>6.4. REFERENCE TO OTHER SECTIONS</b> Dispose as in Section 13.			
С	CRYSTRANITD			

## **CRYSTRAN LTD**

1, Broom Road Business Park, Poole, Dorset, UK BH12 4PA Email: <u>sales@crystran.co.uk</u> www.c TEL: +44 1202 307650 www.crystran.co.uk

FAX +44 1202 307651 Registered in England No.2863378 **SAFETY DATA SHEET** 

Keep away from heat. Avoid contact with skin and eyes. Protect against physical damage. Avoid generating dust.

SODIUM FLUORIDE OPTICAL CRYSTAL

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



Revision 2015 : Issued 20th October 2015

,	7.2. CONDITIONS FOR SAFE STORAGE, I Keep away from foodstuffs. Keep away from			IBILITIES			
	7.3. SPECIFIC END USES	acras and	strong ouses.				
	Optical Material for Manufacture of Optical						
	EXPOSURE CONTROL AND PERS	ONAL I	PROTECTION				
;	8.1. CONTROL PARAMETERS						
	OCCUPATIONAL EXPOSURE LIMITS (OEL) = $2.5 \text{ mg/m}^3$ as Fluoride in 8 hour Time Weighted Average (TWA) 8.2. EXPOSURE CONTROLS						
	9.2. EAT OSURE 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 an						
	possibility of chipping or dust creation. Res						
	local exhaust ventilation. Wash hands immed					1 0	
9.	PHYSICAL AND CHEMICAL PROPERTIES						
	9.1. INFORMATION ON BASIC PHYSICAL			ES			
	6	issy geome	tric shapes, no odour.	FLASH POINT:		Not Applicable	
	BOILING POINT (760mm Hg) 1700°C			FLAMMABILITY:		Not Applicable	
	MELTING POINT: 993°C	•		EXPLOSIVE PROP		Not Applicable	
	SPECIFIC GRAVITY: 2.85 g/n		111.0 / 100.0	VAPOUR PRESSUE		Not Applicable	
	SOLUBILITY IN WATER: Slightly 9.2. OTHER SAFETY INFORMATION	4.22g/100i	nl H <sub>2</sub> O at 18°C	pH IN AQUEOUS S	OLUTION	N: Not determined	
	None						
10	STABILITY AND REACTIVITY						
	10.1. REACTIVITY	10.3	POSSIBILITY OF	HAZARDOUS	10.5.	INCOMPATIBLE MATERIALS	
	Reacts with strong mineral acids and strong		REACTIONS		10001	Strong Mineral Acids. Strong oxidising	
	oxidising materials		None known			materials	
	10.2. CHEMICAL STABILITY	10.4.	CONDITIONS TO		10.6.	HAZARDOUS DECOMPOSITION	
	Stable under normal conditions of storage			g agents. Avoid strong		PRODUCTS	
	and use		acids, particularly hot	t conc. Sulphuric Acid		Decomposition product is Hydrogen Fluoride gas in contact with mineral acid.	
•	CARCINOGENICITY: Some evidence MUTAGENICITY/TERATOGENICIT	Y: Evidenc	e of reproductive effect	ts.			
	ECOLOGICAL INFORMATION 12.1. TOXICITY			12.5 DECLUTE OF L			
	Hazard to drinking water.			12.5. RESULTS OF I		VPVB ASSESSIVIENI	
				Not required or conducted 2.6. OTHER ADVERSE AFFECTS			
	12.2. PERSISTENCE AND DEGRADABILI	rγ		12.6. OTHER ADVE	RSE AFF	ECTS	
	12.2. PERSISTENCE AND DEGRADABILI No Data	ſΥ					
		ſ¥		The following ap effects: fish: L id	oplies to in lus LC50 6	organic fluorides in general: biological 560mg/l; bacteria:Ps putida toxic from 231	
:	No Data 12.3. BIOACCUMULATIVE POTENTIAL No Data	ſY		The following ap effects: fish: L id mg/l up; algae: S	oplies to in lus LC50 6 lo quadrica	organic fluorides in general: biological 660mg/l; bacteria:Ps putida toxic from 231 uda toxic from 249mg/l up;	
:	No Data <b>12.3. BIOACCUMULATIVE POTENTIAL</b> No Data <b>12.4. MOBILITY IN SOIL</b>	ſY		The following ap effects: fish: L id mg/l up; algae: S protozoa:E.sulca	oplies to in lus LC50 6 c quadrica tum toxic	organic fluorides in general: biological 60mg/l; bacteria:Ps putida toxic from 231 uda toxic from 249mg/l up; from 101mg/l up; U parduczi toxic from	
	No Data <b>12.3. BIOACCUMULATIVE POTENTIAL</b> No Data <b>12.4. MOBILITY IN SOIL</b> No Data	ſY		The following ap effects: fish: L id mg/l up; algae: S	oplies to in lus LC50 6 c quadrica tum toxic	organic fluorides in general: biological 60mg/l; bacteria:Ps putida toxic from 231 uda toxic from 249mg/l up; from 101mg/l up; U parduczi toxic from	
13.	No Data 12.3. BIOACCUMULATIVE POTENTIAL No Data 12.4. MOBILITY IN SOIL No Data DISPOSAL CONSIDERATIONS	ſY		The following ap effects: fish: L id mg/l up; algae: S protozoa:E.sulca	oplies to in lus LC50 6 c quadrica tum toxic	organic fluorides in general: biological 60mg/l; bacteria:Ps putida toxic from 231 uda toxic from 249mg/l up; from 101mg/l up; U parduczi toxic from	
13.	No Data 12.3. BIOACCUMULATIVE POTENTIAL No Data 12.4. MOBILITY IN SOIL No Data DISPOSAL CONSIDERATIONS 13.1. WASTE TREATMENT METHODS			The following ap effects: fish: L id mg/l up; algae: S protozoa:E.sulca 71mg/l up (all va	oplies to in lus LC50 6 lo quadrica tum toxic ilues as Na	organic fluorides in general: biological 660mg/l; bacteria:Ps putida toxic from 231 uda toxic from 249mg/l up; from 101mg/l up; U parduczi toxic from F).	
13.	No Data 12.3. BIOACCUMULATIVE POTENTIAL No Data 12.4. MOBILITY IN SOIL No Data DISPOSAL CONSIDERATIONS 13.1. WASTE TREATMENT METHODS Chemical residues are generally classifie	l as special	waste, and are covered	The following ap effects: fish: L id mg/l up; algae: S protozoa:E.sulca 71mg/l up (all va	oplies to in lus LC50 6 lo quadrica tum toxic ilues as Na	organic fluorides in general: biological 660mg/l; bacteria:Ps putida toxic from 231 uda toxic from 249mg/l up; from 101mg/l up; U parduczi toxic from F).	
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## **CRYSTRAN LTD**

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING:

1, Broom Road Business Park, Poole, Dorset, UK BH12 4PA Email: <u>sales@crystran.co.uk</u> <u>www.c</u>

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