

## SAFETY DATA SHEET

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Date Accessed: 2 Date Revised: 0 SECTION 1. IDENTIFICATION Product Name: Strontium Fluoride CAS #: 7783-48-4 Relevant identified uses of the substance: Scientific research and development Supplier details: Stanford Advanced Materials E-mail: sales@samaterials.com Tel: (949) 407-8904 Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A. SECTION 2. HAZARDS IDENTIFICATION 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE Harmful in contact with skin and eyes. Particular care must be exercised when machining a creating dust or particles. 2.2. LABEL ELEMENTS Signal Word: Warning H315 Causes skin irritation H319 Causes serious eye irritation. H332 Harmful if inhaled Precautionary. Statements:			; · ·									
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P301+P310 IF SWALLOWED: Immediately call a poison centre or doctor. Rinse mouth.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### 2.3. OTHER HAZARDS

None

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. SUBSTANCES

Component Name CAS number % EC number (EINECS) EU index UN number Strontium Fluoride 7783-48-4 100% 232-000-3 - -

#### **SECTION 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.		1			.:				.:			.:
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SECTION	5. FI	REF	IGHTI	NG N	IEAS	SURE	S					
5.1. EXTINGUI	SHING	MEDIA			1		: * *			111		
This product do	oes not l	burn.							. E			.:
5.2. SPECIAL I	HAZARI	DS ARI	SING FR		E SUB	STANCE		TURE	·	·	·	
Material may e	volve to	xic fum	es in a fir	e.								
5.3. ADVICE F	OR	EFIGH	TERS									
Use breathing a	apparat	us if ne	cessary.									
1	5	·	1	·	·	1	5	·	5	·	·	•
SECTION												

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.

# SECTION 7. HANDLING AND STORAGE

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

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS (OEL) = 2.5 mg/m3

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.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear glassy geometric shapes, no odour. FLASH POINT: 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 Vapor PRESSURE: Negligible at 25?C

SOLUBILITY IN WATER: 0.12 g/100ml H2O at 27?C pH IN AQUEOUS SOLUTION: No data available

9.2. OTHER SAFETY INFORMATION

None

## **SECTION 10. STABILITY AND REACTIVITY**

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10.1. REACTIVITY	.:	.:						.:		.1	.:	
Reacts with strong mi	neral ac	ids.										
10.2. CHEMICAL STA	ABILITY		<b>'</b>	1	н - на н	1 	1	- 	1	1 	·	
Stable under normal conditions of storage and use												
10.3. POSSIBILITY O	F HAZA	RDOUS F	REACTI	ONS		1 1 1						
None known	.1										.:	
10.4. CONDITIONS T	O AVOI	D		·		·			·			
Avoid strong acids												
10.5. INCOMPATIBLE	E MATEI	RIALS	: • •			: • •			: • •			
Strong Mineral Acids.												
10.6. HAZARDOUS D	ECOMF	POSITION	I PROD	UCTS				1	1 I		.:	
Decomposition produc	ct is Hyd	rogen Flu	oride ga	as.	1. 	1	1	1	1	·	•	

# SECTION 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.

SECTION 12. ECOLOGICAL INFORMATION												
12.1. TOXICITY Hazard to drinking water.	1	1. 	·	·	1	1	1					
12.2. PERSISTENCE AND DEGRADABILITY	1 1 1											
12.3. BIOACCUMULATIVE POTENTIAL		.÷		.1								

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No Data			1 I 1		.:	1 I		.:					
12.4. MOBILITY IN	SOIL												
No Data		1 	<b>'</b>	'	1 	1	1	1	1 	1 1			
12.5. RESULTS OF PBT AND vPvB ASSESSMENT													
Not required or con	ducted			, , ,		1.1	1 1 - 1						
12.6. OTHER ADV	ERSE AFFE	ECTS											
The following appli	es to inorga	nic fluoride	es in ge	neral: b	iological e	effects:	fish: L	idus LC50	660mg	g/l;			
bacteria:Ps putida	toxic from 2	31 mg/l up	; algae:	Sc qua	adricauda	toxic fr	om 249	)mg/l up;					
protozoa:E.sulcatu	m toxic from	າ 101mg/l ເ	ıp; U pa	arduczi	toxic from	n 71mg	/l up (al	l values as	s NaF).				
Hazard to drinking	water.												
The following appli	es to stronti	um compo	unds in	genera	al: toxic fo	r aquat	ic orga	nisms: fish	: Salm	0			
toxic	· · · · · · · ·		·	·	1	·	·	1					
from 1mg/l up; letha from													
3500mg/l up (value	s calculated	l as Sr)		, , ,					;				

## **SECTION 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.

SECTION 14. TRANSPORT IN	<b>N</b>	. :					
14.1. UN NUMBER: None		.1		.1			
14.2. UN PROPER SHIPPING NAME:	1		1	1	1	·	1
Not subject to transportation regulations.							
14.3. TRANSPORT HAZARD CLASS: None				н 1 - 1			
14.4. PACKING GROUP: None			· · ·				

14.5. ENVIRONMENTAL HAZARDS: None

14.6. SPECIAL PRECAUTIONS FOR USER: None

14.7. TRANSPORT IN BULK MARPOL / IBC: No Data

## **SECTION 15. REGULATORY INFORMATION**

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

TSCA: Not listed in the TSCA inventory

## **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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