Science & Borea Laborato	K. I I Ories	77 East Park Drive on awards AV 14150-6781 1168 874-6020 Science Kit & Boreal 9 O Box 5059 115 Fiero Lane an Luis Obispo CA 93403	B o	TER	orles L	.td.	AFETY MSDS Effective	No.	A SHEET SS 535 December 4, 1992	1
SECTION		NAME		24 F	HOU	IR E	MERGEN	CY AS	SISTANCE	
Product		IUM FLUORIDE	P			/	CHE	MTREC		-
Chemical Synonyms	Sodium Fluoride					2 Day 716-226-6177 Health 3 Fire 0				
Formula	NaF					NEDA Reactivity 1				
Unit(s) Size	100, 500 grams					NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME				
C.A.S. No.	7681-49-4					0 1 2 3 4				
SECTION		HAZARD	OUS	SINGRE	DI	NTS	OF MIX	TURES		
Principal Haz	ardous	Component(s)					%	TI	V Units	
Sodiu					100			See Section V.	1	
										li
DANG	GERI 🕏	POISON 😡	3 M.	AY BE FAT	AL IF					9
SWA	LLOWED.	HARMFUL IF INHAL	ED. C	CAUSES EY	E BL	JRNS				
SECTION		PHYSIC	AL E	ATA					是是原金加强	
Melting Point (°F	:)	993°C (1819°F	:)		Specifi	c Gravity	$(H_2O = 1)$	2.558	at 41°C	<u>!</u>
Boiling Point (°F	1704°C (3099°	1704°C (3099°F) Perce by V			ent Volatile /olume (%)		Negligible as solid.			
Vapor Pressure	1 mm at 1077°	1 mm at 1077°C			poration Rate =1)		Non-volatile (NA).			
Vapor Density (A	1.45	1.45								
Solubility in Wate	4.22 grams per	4.22 grams per 100 mL. water at 25°C.								
Appearance & O	dor	· White crystallin	e pow	der; no odo	r.					
SECTION	V	FIRE AN	DE				ARD DA	TA -		Į į
Tash Point Method Used)	Non				Flammable Limits in % by Volume		IA -	rower	Upper	
xtinguisher ledia		Water; dry chemical (ABC); carbon dioxide (CO ₂); foam. Water spray would tend to reduce fumes and disperse vapors.								
SPECIAL FIREF	ln I	In fire conditions, wear a NIOSH-approved self-contained breathing								
	apparatus and protectiv eyes. Dust presents a soluble.					clothin spirato	g to prevent or ry and eye ha	ontact with zard. Mod	n skin and lerately water	F
(1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE NO. 54)										
INUSUAL FIRE EXPLOSION HA									ir K	
-	3	pro	ducts;	cessive hea can react v ogen fluorid	igoro	y prodi usly w	uce hazardou ith acid to libe	s decompo rate corro	osition sive and	ir K

D.O.T. SODIUM FLUORIDE, 6.1, UN 1690

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V	HEALTH HAZARD DATA							
Threshold Limited Value	RTECS No. WB0350000 Toxicity data: Orl-rat LD5u 64 mg/kg, orl-human							
	LDLo 75 mg/kg. OSHA/TWA: 2.5 mg/m³ (Fluorides as F).							
Effects of Overexposure	INHALATION: Irritating to mucous membranes and toxic when inhaled. Chills, labored breathing, fever, unproductive cough. SKIN: May cause dermatitis if exposed to dust or fumes. EYES: Causes eye burns. INGESTION: Severe vomiting, abdominal distress, diarrhea, stupor, weakness. POISON IF SWALLOWED OR INHALED.							
Emergency and	INHALATION: Remove from exposure, treat symptomatically, and get							
First Ald Procedures	medical attention. EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get prompt medical attention SKIN: Flush skin with plenty of water. If irritation develops, get medical attention. INGESTION: If swallowed, if conscious, immediately give several glasses of milk or other calcium containing liquid available, otherwise give large amounts of water. Get immediate medical attention. Never give anything by mouth to an unconscious person. NOTE TO PHYSICIAN: Forms hydrofluoric acid upon contact with acid, such as stomach acid.							
SECTION VI	REACTIVITY DATA							
Stability Unstable Challe	Conditions to Avoid Moisture, extreme temperature and heat.							
Stable X Incompatibility								
ne in inc	The cost of the cost with acids to infill contosive and toxic hydrogen funded. Water forms							
Hazardous Decomposition Products	Hydrogen Fluoride. The possibility of toxic/hazardous fumes of fluorine and sodium oxide should be considered.							
Hazardous Polymerization	Conditions to Avoid							
May Occur Will Not Occur	Not applicable.							
X								
	SPILL OR LEAK PROCEDURES .							
Steps to be taken in case	Recover for use if not contaminated. Avoid inhalation and skin							
Recover for use if not contaminated. Avoid inhalation and skin contact. Wear suitable protective equipment. Sweep up and place in a suitable container for proper disposal, avoiding dusty conditions.								
Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws.								
These disposal guidelines are intended for the disposal of catalog-size quantities only.								
	Dispose of container and any residue according to local regulations.							
SECTION VIII Respiration Protection (Specify Type) None need hood or v	SPECIAL PROTECTION INFORMATION and a provided in normal laboratory handling. If dusty conditions prevail, work in ventilation wear a NIOSH-approved respirator.							
Ventilation Local Exhaust	Yes. Special No.							
mechanical (Genera	Dishbar							
Protective Gloves	Eye Protection Oriented safety glasses.							
C C C C C C C C C C C C C C C C C C C	ron, goggles, ventilation hood, proper gloves, eye wash station.							
	SPECIAL PRECAUTIONS							
Precautions to be Taken n Handling & Storing Store in a cool, dry place away from acids and acid fumes. Wash the remarkly to fine handling.								
Wash thoroughly after handling.								
Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.								
Avoid inhalation and ingestion. Use adequate ventilation. Avoid contact with skin or eyes. Remove and wash contaminated clothing.								
For laboratory use only. Not for drug, food or household use. Keep out of reach of children.								
Rev. No. No. 2 Date 12/	4/92 Approved Alexander A. Piccirilli Chemical Salety AP							
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