## **STANNOUS FLOURIDE**

	CAUTION	ARY RESPO	INSE INFORMATION		4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Flouristan Tin diflouride		Crystalline solid White			<ul> <li>4.1 Flash Point: Not flammable</li> <li>4.2 Flammable Limits in Air: Not flammable</li> <li>4.3 Fire Extinguishing Agents: Not participate</li> </ul>	7.1 Grades of Purity: 97.5% 7.2 Storage Temperature: Currently not available 7.3 Inert Atmosphere: Currently not available		
Sinks and mixes Keep people away. Wear goggles and self-contained respirator. Notify local health and collution control agen		Sinks and mixes with ontained respirator.	nixes with water.		4.4 Fire Extinguishing Agents. Not perturbit     4.4 Fire Extinguishing Agents Not to Be     Used: Not pertinent     4.5 Special Hazards of Combustion     Products: Not perturbit	7.4 Venting: Currently not available 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barce Hull Ture: Currently not available		
Protect water intakes. Fire Not flammable.				4.6 Behavior in Fire: Currently not available 4.7 Auto Ignition Temperature: Not pertinent 4.8 Electrical Hazards: Currently not	8. HAZARD CLASSIFICATIONS     8.1 49 CEE Category: Not listed			
Exposure	Exposure CALL FOR MEDICAL AID. SOLID Will burn eyes. Harmful if swallowed. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiling.				<ul> <li>available</li> <li>available</li> <li>4.9 Burning Rate: Not flammable</li> <li>4.10 Adiabatic Flame Temperature: Currently not available</li> <li>4.11 Stoichometric Air to Fuel Ratio: Not pertinent.</li> <li>4.12 Flame Temperature: Currently not available</li> <li>4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.</li> </ul>	A.2 49 CFR Class: Not pertinent     A.3 49 CFR Class: Not pertinent     A.4 Marine Pollutant: No     A.5 NFPA Hazard Classification: Not listed     A.6 EPA Reportable Quantity: Not listed     A.7 EPA Pollution Category: Not listed     A.8 RCRA Waste Number: Not listed     A.9 EPA FWPCA List: Not listed		
Water Pollution	Water HARMFUL TO AQUATIC LIFE IN LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Vollution Notify local health and wildlife officials. Notify operators of nearby water intakes.				4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 5. CHEMICAL REACTIVITY	9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 156.70		
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge Contain Collection Systems: Pump; Dredge		E ACTIONS	<ol> <li>CHEMICAL DESIGNATIONS</li> <li>CG Compatibility Group: Not listed.</li> <li>Formula: SnF;</li> <li>IMO/UN Designation: Not listed</li> <li>DOT 10 No: Not listed</li> <li>SCAS Registry No.: Currently not available</li> <li>NAERG Guide No.: Not listed</li> <li>Standard Industrial Trade Classification: 52310</li> </ol>		5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: Avoid contact with acids - HF fumes may be produced. 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Currently not available 5.5 Polymerization: Not pertinent 5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION	<ul> <li>9.3 Bolicing Point at 1 atm: 1052°F = 850°C = 1123.2°K</li> <li>9.4 Freezing Point: 419°F = 215°C = 488.2°K</li> <li>9.5 Critical Temperature: Currently not available</li> <li>9.6 Critical Pressure: Currently not available</li> <li>9.7 Specific Gravity: 2.79</li> <li>9.8 Liquid Surface Tension: Not pertinent</li> <li>9.9 Liquid Water Interfacial Tension: Not pertinent</li> <li>9.10 Vapor (Gas) Specific Gravity: Not pertinent</li> <li>9.41 Ovapor (Gas) Specific Gravity: Not pertinent</li> </ul>		
3.1 Personal Prote 3.2 Symptoms Fol on abradec 3.3 Treatment of E soap and w 3.4 TLV-TWA: 2 m 3.5 TLV-STEL: Not 3.6 TLV-Ceiling: N 3.7 Toxicity by Inh 3.9 Chronic Toxici anemia, wa of teeth ma 3.10 Vapor (Gas) IT 3.11 Liquid or Solic	ective Equipm lowing Exposed 5 kin, no effec Exposure: EYI yater. INGEST g/m <sup>3</sup> as Sn. L listed. Jestion: Grade alation: Curre tiy: Long expose asting, and cac yo occur. A po ritant Charact	<ol> <li>HEALTH H nemt: Goggles and du urre: EYES: Severe ton intact skin.</li> <li>Flush with plenty ION: Induce vomiting</li> <li>LDso = 50 to 500 ntly not available.</li> <li>sure to large amounts hexia, and dental defi ssible mutagen.</li> <li>Currently nc teristics: Currently nc tics: No appreciable h</li> </ol>	AZARDS st mask. irritation - corrosive, irreversible. SKIN: Corrosive of water for at least 15 minutes. SKIN: Flush with . Get medical attention. mg/kg. of the flouride may cause loss of weight, anorexia, acts. An increase in bone density and discoloration ot available hazard. Practically harmless to intact skin.		<ul> <li>6.1 Aquatic Toxicity: Flouride salts are toxic to fish at concentrations as low as 2.3 ppm.</li> <li>6.2 Waterfowl Toxicity: Currently not available</li> <li>6.3 Biological Oxygen Demand (BOD): Currently not available</li> <li>6.4 Food Chain Concentration Potential: Flourine is concentrated by aquatic animals.</li> <li>6.5 GESAMP Hazard Profile: Not listed</li> </ul>	Currently not available 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available TES		
3.13 IDLH Value: 1( 3.14 OSHA PEL-TV 3.15 OSHA PEL-TS 3.16 OSHA PEL-Ce 3.17 EPA AEGL: N	00 mg/m <sup>3</sup> VA: 2 mg/m <sup>3</sup> FL: Not liste illing: Not liste ot listed	d.						

## 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Not pertinent

- 9.17 Heat of Fusion: Currently not available
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not available

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9. SATURATED LI	20 QUID DENSITY	9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	N O T		N O T		N O T		N O T
	T PERTINENT		T E R T I N E N T		T PERTINENT		T PERTINENT

9. SOLUBILIT	24 Y IN WATER	9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
64	42.000		C U R R E N T L Y NOT A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E