ZINC FLUORIDE

Common Synonymy Zno diluoride Solid needes or cystals Cohores to while 7.1 Fash Note: Common Synonymy Synonymy 7.2 Songes Temperature: Currently not available Modify local health and colution control agencies. Protect water induse. 7.1 Fash Note: Columbia in an operation of available 7.3 Sondes of Aurity: Currently not available 7.4 Sondes of Aurity: Currently not available 7.5 Sondes of Aurity: Sonde of Aurity: Currently not available							
Common Symemy Solid reades or protect variable Collections to while or sinks and mixes with water. Collections to while or sinks and mixes with water. Collections to while or sinks and mixes with water. Collection	CAUTI	ONARY RESPO	INSE INFORMATION	4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Molity local health and goldance contral agencies. 7.5 Mio Presiduation Cateral gencies. 7.5 Mio Presiduation Cateral gencies. Fire Fire data not available. 7.5 Mio Presiduation Cateral gencies. 7.5 Mio Presiduation Cateral gencies. Exposure CALL FOR MEDICAL AD. 5.0 LO RN DNT 8. HAZAND CLASSIFICAT. Soludo RN DNT Soludo RN DNT 8. Micro Residuation Cateral gencies. 8. Micro Residuation Cateral gencies. Valuer CALL FOR MEDICAL AD. 5.0 LO RN DNT 8. Micro Residuation Cateral gencies. Soludo RN DNT Soludo RN DNT 8. Micro Residuation Cateral gencies. 8. Micro Residuation Cateral gencies. Valuer Prediction: Cateral gencies. 9. Micro Residuation Cateral gencies. 8. Micro Residuation Cateral gencies. Valuer Prediction: Cateral gencies. 9. Micro Residuation Cateral gencies. 9. Micro Residuation Cateral gencies. Valuer Prediction: Cateral gencies. 9. Micro Residuation Cateral gencies. 9. Micro Residuation Cateral gencies. Valuer Prediction: Cateral gencies. 9. Micro Residuation Cateral gencies. 9. Micro Residuation Cateral gencies. Valuer Prediction: Cateral gencies. 9. Micro Residuation Residuation Residuation Residuation Residua	Common Synonyms Solid needles or Co Zinc difluoride crystals			Currently not available 4.2 Flammable Limits in Air: Currently not available	7.1 Grades of Purity: Currently not available 7.2 Storage Temperature: Currently not avail 7.3 Inert Atmosphere: Currently not available		
Prodict value it takes. Item Product value it takes.	Notify local health an			available	7.5 IMO Pollution Category: Currently not av 7.6 Ship Type: Currently not available		
Cut FOR MEDICAL ALD. Control for A Match (Cut School) Control for the first Currently on available A data (printon There-Currently on available A data (printon The			Used: Currently not available	7.7 Barge Hull Type: Currently not available			
Exposure SUD OR DUST Mining to even and road Sub OR DUST Mining to even and road Sub OR DUST Mining to even and road More to freat ai all additional Sub OR DUST Mining to even and road More to freat ai definition defini	Fire Fire dat	a not available.		4.6 Behavior in Fire: Currently not available			
1. CORRECTIVE RESPONSE ACTIONS Sup discharge Collection Systems: Dredge 2. CHEMICAL DESIGNATIONS 9.2 Molecular Weight: 103.38 (arby: 9.3 Boiling Point at 1 attr: 2732'F 5. CHEMICAL REACTIVITY 1. CORRECTIVE RESPONSE ACTIONS Sup discharge Collection Systems: Dredge 2. CHEMICAL DESIGNATIONS 9.2 Molecular Weight: 103.38 (arby: 9.3 Boiling Point at 1 attr: 2732'F 5. CHEMICAL REACTIVITY 1. CORRECTIVE RESPONSE ACTIONS Sup discharge Collection Systems: Dredge 2. CHEMICAL DESIGNATIONS 5. CHEMICAL REACTIVITY 2. DOT ID No: 9158 2. Construction 2. Formula: Zrif 2. Construction 5. CHEMICAL REACTIVITY 3. HEALTH HAZARDS 2. Formula: Zrif 2. Construction 5. CHEMICAL REACTIVITY 3. HEALTH HAZARDS 3. HEALTH HAZARDS 3. HEALTH HAZARDS 3. Treatment of Exposure: INHALATION: Irritation of nasal passages, dryness, and nose beded. CPS: Irritation may occur. SIAIK Excessive exposure may couse a stat. INSESTION: Satity or soapt tasts, salvation, and thist: 6. WATER POLLUTION 9.1 Qualit Condition: Treatment of Exposure: Carently not available 9.1 Qualit Condition: Currently not available 3. True of SNR, Wash white water. INSESTION: Satity or soapt tasts, salvation, and thist: 1. Tu-VTW: Not isted. 9.1 Qualit Condition: Currently not available 9.1 Qualit Condition: Currently not available 9.1 Qualit Condition: Currently not available 3. True of SNR, Wash white water. INSESTION: Satity by Inhalation: Currently not available 1.1 Ratity of Dialognatic density of banes	SOLID (Irritating Harmful Move to IF IN EY IF SWA Water Pollution	OR DUST g to eyes and nose. if swallowed. y fresh air. YES, hold eyelids open an LLOWED and victim is C UL TO AQUATIC LIFE IN dangerous if it enters wat cal health and wildlife offic	ONSCIOUS, have victim drink water or milk. VERY LOW CONCENTRATIONS. ter intakes. cials.	 4.8 Electrical Hazards: Currently not available 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: Not pertinent. 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent. 	 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Not listed 8.6 EPA Reportable Quantity: 1000 pound 8.7 EPA Pollution Category: C 8.8 RCRA Waste Number: Not listed 		
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Dredge 2. CHEMICAL DESIGNATIONS 5. CHEMICAL REACTIVITY 1773"K 2. Collection Systems: Dredge 2. CHEMICAL DESIGNATIONS 5. CHEMICAL REACTIVITY 9.4 Freezing Point: (Anbydous salt) 27.5 Canadra Industrial Trade Classification: 5.23 10 5. CHEMICAL REACTIVITY 9.4 Freezing Point: (Anbydous salt) 27.5 Canadra Industrial Trade Classification: 5.23 10 5. CHEMICAL REACTIVITY 9.4 Freezing Point: (Anbydous salt) 27.5 Reactivity with Water: No reaction 5.3 Stability During Transport: Slightly hygroscopic 9.4 Freezing Point: (Anbydous salt) 27.5 Specific Gravity: A.84 at 15°C 4.4 15°C 4.4 EVEX 9.4 Circleal Pressure: Currently not available 5.6 Polymerization: Currently not available 5.5 Polymerization: Currently not available 5.5 Polymerization: Currently not available 5.5 Polymerization: Currently not available 5.5 Polymerization: Currently not available 5.6 UNATER POLLUTION 8.11 Ratio of Specific Gravity: N 11 Ratio of Specific Gravity				4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	9.2 Molecular Weight: 103.38 (anhydrous sa		
 3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Approved dust and fume respirator, skin and eye protection. 3.2 Symptoms Following Exposure: INHALATION: Irritation of nasal passages, dyness, and nose baleed. EYES: Initiation may occur. SKIN: Excessive exposure may cause a rash. INGESTION: Safty or soapy taste, salivation, nausea, burning or crampy abdominal pain, vormting, diamena, dehydration, and thirst. 3.3 Treatment of Exposure: Call a physician. INHALATION: Remove from exposure. EYES: Flush with water of Castric lavage with lime water or a valiable with soap and cold water. INGESTION: Gastric lavage with lime water or a valiable distituted. Aurnium hydroxide gel may be used to bind fluoride. 3.4 TLV-TWA: Not listed. 3.5 TU-V-STEL: Not listed. 3.6 TU-V-Gling: Not listed. 3.10 Vapor (Gas) Specific Gravity: Not available 3.5 Toxicity by Inplation: Currently not available 3.6 OSHA PEL-Wai: Not listed. 3.16 OSHA PEL-Celling: Not listed. 3.16 OSHA PEL-Celling: Not listed. 	Stop discharge		2.1 CG Compatibility Group: Not listed. 2.2 Formula: ZnF₂ 2.3 IMO/UN Designation: Not listed 4. DOT ID No.: 9158 2.5 CAS Registry No.: 7783-49-5 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification:	 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Slightly hygroscopic 5.4 Neutralizing Agents for Acids and 	1773°K 9.4 Freezing Point: (Anhydrous salt) 1601.6 872°C = 1145°K 9.5 Critical Temperature: Currently not ava 9.6 Critical Pressure: Currently not availabl 9.7 Specific Gravity: 4.84 at 15°C 4.95 at 2 9.8 Liquid Surface Tension: Not pertinent		
3.16 OSHA PEL-Ceiling: Not listed.	 Personal Protective Equipment: Approved dust and fume respirator, skin and eye protection. Symptoms Following Exposure: INHALATION: Irritation of nasal passages, dryness, and nose bleed. EYES: Irritation may occur. SKINE xxeessive exposure may cause a rash. INGESTION: Salty or soapy taste, salivation, nausea, burning or crampy abdominal pain, vomiting, diarrhea, dehydration, and thirst. Treatment of Exposure: Call a physician. INHALATION: Remove from exposure. EYES: Flush with water. SKIN: Wash with soap and cold water. INGESTION: Gastric lavage with lime water or a 1% solution of calcium chloride. Give several ounces of lime water at frequent intervals. Milk may be substituted. Aluminum hydroxide gel may be used to bind fluoride. TLV-TWA: Not listed. TUV-STEL: Not listed. Toxicity by Inhalation: Currently not available. Chronic Toxicity: Repeated exposures to excessive concentrations of fluorides may increase radiographic density of bones and eventually may be responsible for anatomical abnormalities. Vapar (Gas) Irritant Characteristics: Not pertinent Liquid or Solid Characteristics: Currently not available Odor Threshold: Currently not available Sub Urash Characteristics: Currently not available 			 5.6 Inhibitor of Polymerization: Currently not available 6. WATER POLLUTION 6.1 Aquatic Toxicity: Fluoride salts are toxic to fish at concentrations as low as 2.3 ppm in fresh water. 96-hour TLm values range from 4.7 to 35.5 mg Zr/l. 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 62.4 mg/ Zn will cause a 50% drop in the 5 day BOD. 6.4 Food Chain Concentration Potential: Zn may accumulate by aquatic animals. 6.5 GESAMP Hazard Profile: Not listed 	 9.10 Vapor (Gas) Specific Gravity: Not per 9.11 Ratio of Specific Heats of Vapor (Gas) Not pertinent 9.12 Latent Heat of Vaporization: Estimate BP 1500°C 958.4 Btu/lb = 532.5 ca/g = X 10° J/kg 9.13 Heat of Combustion: Not pertinent 9.14 Heat of Decomposition: Currently not available 9.15 Heat of Solution: Exothermic for anhyt sait -227.8 Btu/lb = -126.5 ca/g = -5. 10° J/kg 9.16 Heat of Polymerization: Currently not available 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available 		
	3.17 EPA AEGL: Not listed						

ZINC FLUORIDE

9.20 SATURATED LIQUID 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
	P E R T I N E N T		P E R T I N E N T		P E R T I N E N T		P E R T I N E N T

9.24 SOLUBILITY 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
77	1.650		N O T P E R T I N E N T		N O T E R T I N E N T		N O T P E R T I N E N T