

ZINC HYDROSULFITE

ZHS

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Zinc dithionite	Amorphous solid Mixes with water.	White	Slight SO ₂ /M2 odor	<p>4.1 Flash Point: Not flammable</p> <p>4.2 Flammability Limits in Air: Not pertinent</p> <p>4.3 Fire Extinguishing Agents: No fire hazard.</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent</p> <p>4.5 Special Hazards of Combustion Products: Decomposes giving off irritating SO₂</p> <p>4.6 Behavior in Fire: Currently not available</p> <p>4.7 Auto Ignition Temperature: Not pertinent</p> <p>4.8 Electrical Hazards: Currently not available</p> <p>4.9 Burning Rate: Not pertinent</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: Not pertinent.</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: 86% to 88% ZnS₂O₄</p> <p>7.2 Storage Temperature: Cool</p> <p>7.3 Inert Atmosphere: Currently not available</p> <p>7.4 Venting: Currently not available</p> <p>7.5 IMO Pollution Category: Currently not available</p> <p>7.6 Ship Type: Currently not available</p> <p>7.7 Barge Hull Type: Currently not available</p>
Fire	Not flammable.				
Exposure	CALL FOR MEDICAL AID. DUST Irritating to eyes, nose, and throat. Move to fresh air. SOLID Irritating to skin and eyes. If swallowed, will cause nausea and vomiting. 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 plenty of water or milk and have victim induce vomiting.				
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: ZnS ₂ O ₄ 2.3 IMO/UN Designation: 9/1931 2.4 DOT ID No.: 1931 2.5 CAS Registry No.: 7779-86-4 2.6 NAERG Guide No.: 171 2.7 Standard Industrial Trade Classification: 52344	5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: Contact with water liberates irritating SO ₂ gas. 5.2 Reactivity with Common Materials: Oxidizing agents and acids 5.3 Stability During Transport: Hygroscopic should be protected from moisture and heat. 5.4 Neutralizing Agents for Acids and Caustics: Neutralize with soda ash and NaOH. 5.5 Polymerization: Does not polymerize. 5.6 Inhibitor of Polymerization: Not pertinent			
3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Dust mask, chemical workers goggles, and rubber gloves. 3.2 Symptoms Following Exposure: INHALATION: Irritation of nose and throat. EYES: Mild irritant. SKIN: Irritant. INGESTION: Nausea and vomiting. 3.3 Treatment of Exposure: Call a physician. INHALATION: Move to fresh air. EYES: Wash with plain water or 2% solution of sodium bicarbonate. SKIN: Wash with soap and water. INGESTION: Dilute chemical and empty stomach with an emetic. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 2; LD ₅₀ = 0.5 to 5 g/kg. 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Not pertinent 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 3.13IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed	6. WATER POLLUTION 6.1 Aquatic Toxicity: 96-hour TL _m = 4.7 to 35.5 mg Zn/l 96-hour TL ₅₀ values in soft water: 1 mg Zn/l for Fathead minnow 6 mg Zn/l for Goldfish 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): 62.4 mg Zn/l will cause a 50% drop in the 5 day BOD. 6.4 Food Chain Concentration Potential: Zn may accumulate slightly. 6.5 GESAMP Hazard Profile: Not listed	7.8 HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Class 9 8.2 49 CFR Class: 9 8.3 49 CFR Package Group: III 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Not listed 8.6 EPA Reportable Quantity: 1000 pounds 8.7 EPA Pollution Category: C 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Yes			
NOTES					

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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
CURRENTLY NOT AVAILABLE			CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE

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
68	28.000		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE