

SODIUM HYDROGEN SULFITE SOLUTION (35% OR LESS)

SHX

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Sodium bisulfite solution	Liquid	Pale yellow	Pungent odor of sulfur dioxide	<p>4.1 Flash Point: Not flammable.</p> <p>4.2 Flammable Limits in Air: Not pertinent.</p> <p>4.3 Fire Extinguishing Agents: Use extinguishing agents appropriate for the surrounding fire.</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent.</p> <p>4.5 Special Hazards of Combustion Products: Decomposes with heat or oxidizing agents, releasing sulfur dioxide gas.</p> <p>4.6 Behavior in Fire: Not pertinent.</p> <p>4.7 Auto Ignition Temperature: Not pertinent.</p> <p>4.8 Electrical Hazards: Not pertinent.</p> <p>4.9 Burning Rate: Not pertinent.</p> <p>4.10 Adiabatic Flame Temperature: Not pertinent.</p> <p>4.11 Stoichiometric Air to Fuel Ratio: Not pertinent.</p> <p>4.12 Flame Temperature: Not pertinent.</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: Technical and photographic grades.</p> <p>7.2 Storage Temperature: Ambient.</p> <p>7.3 Inert Atmosphere: No requirement.</p> <p>7.4 Venting: Open.</p> <p>7.5 IMO Pollution Category: D</p> <p>7.6 Ship Type: 3</p> <p>7.7 Barge Hull Type: Currently not available</p>
Fire	Not flammable. Use extinguishing agents appropriate for the surrounding fire. Cool exposed containers with water spray.				8. HAZARD CLASSIFICATIONS
Exposure	CALL FOR MEDICAL AID. LIQUID Irritating to skin and eyes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.				<p>8.1 49 CFR Category: Corrosive Material</p> <p>8.2 49 CFR Class: 8</p> <p>8.3 49 CFR Package Group: III</p> <p>8.4 Marine Pollutant: No</p> <p>8.5 NFPA Hazard Classification: Not listed</p> <p>8.6 EPA Reportable Quantity: Not listed.</p> <p>8.7 EPA Pollution Category: Not listed.</p> <p>8.8 RCRA Waste Number: Not listed</p> <p>8.9 EPA FWPCA List: Not listed</p>
Water Pollution	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				9. PHYSICAL & CHEMICAL PROPERTIES
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Dilute and disperse	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: 43; Miscellaneous Water Solutions 2.2 Formula: $\text{NaHSO}_3 \cdot \text{H}_2\text{O}$ 2.3 IMO/UN Designation: Currently not available 2.4 DOT ID No.: 2693 2.5 CAS Registry No.: 7631-90-5 2.6 NAERG Guide No.: 154 2.7 Standard Industrial Trade Classification: 52344			5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction. 5.2 Reactivity with Common Materials: Not compatible with oxidizing agents. 5.3 Stability During Transport: Stable. 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent. 5.5 Polymerization: Will not polymerize. 5.6 Inhibitor of Polymerization: Not pertinent.	<p>9.1 Physical State at 15°C and 1 atm: Liquid</p> <p>9.2 Molecular Weight: 104.06</p> <p>9.3 Boiling Point at 1 atm: $>212^\circ\text{F} = >100^\circ\text{C} = >373^\circ\text{K}$</p> <p>9.4 Freezing Point: $<32^\circ\text{F} = <0^\circ\text{C} = <273^\circ\text{K}$</p> <p>9.5 Critical Temperature: Currently not available</p> <p>9.6 Critical Pressure: Currently not available</p> <p>9.7 Specific Gravity: 1.36 at 25°C</p> <p>9.8 Liquid Surface Tension: Currently not available</p> <p>9.9 Liquid Water Interfacial Tension: Currently not available</p> <p>9.10 Vapor (Gas) Specific Gravity: 2.2</p> <p>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</p> <p>9.12 Latent Heat of Vaporization: Currently not available</p> <p>9.13 Heat of Combustion: Currently not available</p> <p>9.14 Heat of Decomposition: Currently not available</p> <p>9.15 Heat of Solution: Currently not available</p> <p>9.16 Heat of Polymerization: Not pertinent.</p> <p>9.17 Heat of Fusion: Currently not available</p> <p>9.18 Limiting Value: Currently not available</p> <p>9.19 Reid Vapor Pressure: Currently not available</p>
3. HEALTH HAZARDS 3.1 Personal Protective Equipment: Wear chemical splash goggles or face shield and chemical protective gloves. 3.2 Symptoms Following Exposure: Solution is irritating to eyes, nose, and throat and can irritate skin. Ingestion may cause irritation of stomach. 3.3 Treatment of Exposure: Get medical attention. SKIN: wash with plenty of water. EYES: flush with plenty of water for at least 15 minutes. 3.4 TLV-TWA: 5 mg/m³ 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 2; LD ₅₀ = 2.0 g/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: None 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary. 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin. 3.12 Odor Threshold: Currently not available 3.13 IDLH 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: 240 ppm/24, 48, & 96 hr/mosquito fish/TL _m /fresh water 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Reacts chemically with dissolved oxygen even in absence of seeded organisms. 6.4 Food Chain Concentration Potential: None. 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: (2) Human Oral hazard: 1 Human Contact hazard: 0 Reduction of amenities: 0	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
77	11.350		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		C U R R E N T L Y N O T A V A I L A B L E

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
	M I S C I B L E	100	1.509	100	0.02612		C U R R E N T L Y N O T A V A I L A B L E