AMMONIUM THIOSULFATE SOLUTION (60% OR LESS)

mmonium hypo solu	te solution	iquid	Colorless Odorless		
Restrict ac Wear che Notify loca					
Fire	Not flammable. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles and self-contained breathing apparatus. Use extinguishing agents appropriate for the surrounding fire.				
Exposure	CALL FOR MEDICAL AID. SOLUTION Irritating to skin and eyes. Remove contarrinated clothing and shoes. 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 and induce vomiting.				
Water Pollution	May be dangere Notify local heat	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.			
		3. HEALTH I	2.4 DOT ID No:: Ñot listed. 2.5 CAS Registry No:: 7783-18-8 2.6 NAERG Guide No:: Not listed 2.7 Standard Industrial Trade Classification: 52344 HAZARDS I protective gloves to prevent contact with solution.		
or blurring 3.3 Treatment of 1 victim two min., lifting 8.4 TLV-TWA: Not 5.5 TLV-STEL: No 8.6 TLV-Ceiling: N 3.7 Toxicity by Inf 8.8 Toxicity by Inf 9.9 Chronic Toxic 8.10 Vapor (Gas) 1 system if f 1.11 Liquid or Soli	of vision. Contact Exposure: Get me glasses of water a lids occasionally. listed. to listed. jestion: Grade 2; alation: Currently ity: Currently not a gestion: Carcentistics ruring and reddenin jdd: Currently not a d Characteristics ruring and reddenin jdd: Currently not a WA: Not listed. #MA: Not listed.	with skin may ci dical attention. Ind induce vomiti SKIN: Flush with oral rat LDso = 2 not available. vailable stics: Vapors ca sentrations. The Winimum hazarr g of skin.			

4. FIRE HAZARDS	7. SHIPPING INFORMATION				
4.1 Flash Point: Not flammable.	7.1 Grades of Purity: Technical, water solutions o varying concentrations.				
4.2 Flammable Limits in Air: Not pertinent.	7.2 Storage Temperature: Ambient.				
4.3 Fire Extinguishing Agents: Use	7.3 Inert Atmosphere: Ventilated (natural).				
extinguishing agents appropriate for the surrounding fire.	7.4 Venting: Open.				
4.4 Fire Extinguishing Agents Not to Be	7.5 IMO Pollution Category: C				
Used: Not pertinent.	7.6 Ship Type: 3				
4.5 Special Hazards of Combustion Products: Toxic ammonia, hydrogen sulfide, and oxides of nitrogen and sulfur	7.7 Barge Hull Type: Currently not available				
may form in fires.	8. HAZARD CLASSIFICATIONS				
4.6 Behavior in Fire: Not pertinent.	8.1 49 CFR Category: Not listed.				
4.7 Auto Ignition Temperature: Not	8.2 49 CFR Class: Not pertinent.				
pertinent.	8.3 49 CFR Package Group: Not listed.				
4.8 Electrical Hazards: Not pertinent.4.9 Burning Rate: Not pertinent.	8.4 Marine Pollutant: No				
4.10 Adiabatic Flame Temperature: Not	8.5 NFPA Hazard Classification:				
pertinent.	Category Classification				
4.11 Stoichometric Air to Fuel Ratio: Not	Health Hazard (Blue) 1 Flammability (Red) 0				
pertinent	Instability (Yellow) 1				
4.12 Flame Temperature: Not pertinent.					
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent	 8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 				
4.14 Minimum Oxygen Concentration for	8.8 RCRA Waste Number: Not listed				
Combustion (MOCC): Not listed	8.9 EPA FWPCA List: Not listed				
	0.3 EFATWFCA List. Not insted				
5. CHEMICAL REACTIVITY	9. PHYSICAL & CHEMICAL				
5.1 Reactivity with Water: No reaction.	PROPERTIES				
5.2 Reactivity with Common Materials:					
Reacts with strong oxidizers such as chlorates, nitrates, and nitrites to release	9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 148.2				
toxic ammonia, hydrogen sulfide, and	9.3 Boiling Point at 1 atm: 122°F = 50°C =				
sulfur trioxide gases.	323°K				
5.3 Stability During Transport: Stable, but toxic ammonia gas may collect in	9.4 Freezing Point: 50°F = 10°C = 283°K				
enclosed spaces.	9.5 Critical Temperature: Currently not available				
5.4 Neutralizing Agents for Acids and	9.6 Critical Pressure: Currently not available				
Caustics: Not pertinent. 5.5 Polymerization: Will not polymerize.	9.7 Specific Gravity: 1.33 at 16°C				
5.6 Inhibitor of Polymerization: Not	9.8 Liquid Surface Tension: Currently not				
pertinent.	available				
	9.9 Liquid Water Interfacial Tension: Currently not available				
6. WATER POLLUTION	9.10 Vapor (Gas) Specific Gravity: <1				
6.1 Aquatic Toxicity:	9.11 Ratio of Specific Heats of Vapor (Gas):				
Currently not available	Currently not available				
6.2 Waterfowl Toxicity: Currently not available	9.12 Latent Heat of Vaporization: Currently not available				
6.3 Biological Oxygen Demand (BOD): 0.62 lb/lb, 5 days (As the salt).	9.13 Heat of Combustion: Not pertinent.				
6.4 Food Chain Concentration Potential:	9.14 Heat of Decomposition: Currently not available				
6.5 GESAMP Hazard Profile:	9.15 Heat of Solution: Currently not available				
Bioaccumulation: 0	9.16 Heat of Polymerization: Not pertinent.				
Damage to living resources: (2) Human Oral hazard: 1	9.17 Heat of Fusion: Currently not available				
Human Contact hazard: 0	9.18 Limiting Value: Currently not available				
Reduction of amenities: 0	9.19 Reid Vapor Pressure: Currently not available				
NOTE	S				

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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
60	11.099		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVAILABLE		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	68 77 100	0.348 3.578 6.092	68 77 100	0.00910 0.09200 0.15025		C U R R E N T L Y N O T A V A I L A B L E