AMMONIUM BROMIDE

(IARY RESPO	NSE INFORMATION		4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Hydrobromic acid monoammoniate Sinks and mixes in		Solid crystals or granules Sinks and mixes in	White (becomes yellow Odorless in air)		 4.1 Flash Point: Not flammable 4.2 Flammable Limits in Air: Not flammable 4.3 Fire Extinguishing Agents: Water spray 4.4 Fire Extinguishing Agents Not to Be Used: Not perlinent 	 7.1 Grades of Purity: 99% to 99.5% 7.2 Storage Temperature: Cool 7.3 Inert Atmosphere: Currently not available 7.4 Venting: Currently not available 7.5 IMO Pollution Category: Currently not available 		
Wear goggl Stop discha Isolate and Notify local	les and dust m arge if possible remove disch health and po	ask. e. Keep people away arged material. Ilution control agencie	15.		4.5 Special Hazards of Combustion Products: Material decomposes into N ₂ and HBr or Br ₂ under extreme temperatures.	7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available		
Fire Not flammable. POISONOUS GASES MAY BE PRODUCED IN FIRE OR WHEN HEATED. In fire conditions wear self-contained breathing apparatus, and goggles. Water spray will reduce furme and irritant gases.				 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: Not flammable 4.8 Electrical Hazards: Not pertinent 4.9 Electrical Hazards: Not pertinent 	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Not listed 8.2 49 CFR Class: Not pertinent 8.3 49 CFR Package Group: Not listed.			
Exposure CALL FOR MEDICAL AID. SOLID Dust irritating if breathed. Slightly irritating to skin and eyes. Harmful if swallowed. Move to fresh air. Flush affected areas with plenty of water. IF SWALLOWED, and victim is CONSCIOUS, induce vomiting.				4.9 Burning Rate: Not flammable 4.10 Adiabatic Flame Temperature: Not pertinent 4.11 Stoichometric Air to Fuel Ratio: Not pertinent 4.12 Flame Temperature: Not pertinent 4.13 Combustion Molar Ratio (Reactant to Product): Currently not available 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Mol listed	8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)			
Water Pollution	Water Effects of low concentrations on aquatic life are unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify local health and wildlife officials.				5. CHEMICAL REACTIVITY	8.7 EPA Pollution Category: Not listed 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed		
1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge		ACTIONS	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed 2.2 Formula: NH-Br 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: 12124-97-9 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification:		S.1 Reactivity with Oxater: No Feaction S.2 Reactivity with Common Materials: At fire temperatures may corrode metal S.3 Stability During Transport: Stable S.4 Neutralizing Agents for Acids and Caustics: Not pertinent S.5 Polymerization: Not pertinent G. WATER POLLUTION S.1 Agents To Xing	 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 97.95 9.3 Boiling Point at 1 atm: Sublimes 1007°F = 541.7°C = 814.8°K 9.4 Freezing Point: Sublimes without melting 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 		
3.1 Personal Prote goggles if e 3.2 Symptoms Foll Slight irritati Weakness, vertigo, skir 3.3 Treatment of E vorriting an 3.4 TLV-TWL: Not 3.5 TLV-STEL: Not 3.6 TLV-STEL: Not 3.6 TLV-STEL: Not 3.7 Toxicity by Inge 3.8 Toxicity by Inge 3.9 Chronic Toxicit 3.10 Vapor (Gas) In 3.11 Liquid or Solid 3.12 Odor Threshol 3.13 IDLH Value: No. 3.14 OSHA PEL-TW	ctive Equipm ye protection owing Exposion. SKIN: Sin nervousness, rash. xposure: EYI d call a doctor listed. listed. listed. listed. listed. d listed. sestion: Curre y: Chronic br tiant Charact I Characterist d: Currently n t listed. A: Not listed.	3. HEALTH H ent: In fire conditions not provided. ure: INHALATION: C ght iritration only with anorexia, confusion, SAND SKIN: Flush . 2; LD ₅₀ = 0.5 to 5 g/ nthy not available. mide intoxication. eristics: Not pertiner ics: No appreciable h ot available	AZARDS s: wear self-contained breathing apparatus, wear ust irritating - disturbed behavior, sedation. EYES repeated or prolonged contact. INGESTION: hallucinations, drowsiness, irritability, ataxia, with large amounts of water. INGESTION: Induce kg. ht hazard. Practically harmless to skin.		Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: Currently not available 6.5 GESAMP Hazard Profile: Not listed	 9.7 Specific Gravity: 2.429 at room temperature 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Currently not available 9.15 Heat of Solution: Endothermic infinite dilution 76.0 Btu/lb = 42.2 cal/g = 1.77 X 10⁵ J/kg 9.16 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available 		
3.16 OSHA PEL-Cei 3.17 EPA AEGL: No	ling: Not listed	1.			ION	ES		

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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 PERTINENT		T		T

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
40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210	61.969 66.690 77.412 76.134 88.855 85.577 90.297 95.020 99.740 104.462 109.183 113.905 118.627 123.349 128.070 132.792 137.514 142.234		C U R R E N T L Y N O T A V A I L A B L E		N O T P E R T I N E N T		Pound-P N O T E R T I N E N T