AMMONIUM CHLORIDE

	CAUTION	IARY RESPC	INSE INFORMATION	٦	4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Solid Amchloride Armoneirc Sinks and mixes sl Armonium muriate Sal ammoniac Salmiac			White Odorless and mixes slowly with water.		 Flash Point: Not flammable Flammable Limits in Air: Not flammable Fire Extinguishing Agents: Not pertinent Fire Extinguishing Agents Not to Be Used: Not pertinent Special Hazards of Combustion 	 7.1 Grades of Purity: USP; Reagent; Technical, 99+% 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 		
Stop discharge if possible. Keep people away. Avoid contact with solid and dust. Isolate and remove discharged material. Notify local health and pollution control agencies. Protect water intakes.					Forducts: Toxic and irritating ammonia and hydrogen chloride gases may form in fire. 4.6 Behavior in Fire: May volatilize and condense on cool surfaces. 4.7 Auto Ignition Temperature: Not pertinent			
Fire					4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Not pertinent 4.10 Adiabatic Flame Temperature: Not pertinent	 8.2 49 CFR Class: Not pertinent 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: 		
Exposure	CALL FOR MEDICAL AID. DUST Irritating to eyes, nose and throat. If inhaled will cause coughing or difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID				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): Not listed 5. CHEMICAL REACTIVITY	Category Classification Health Hazard (Blue) 1 2 Flammability (Red) 0 0 Instability (Yellow) 0 0 8.6 EPA Reportable Quantity: 5000 8.7 EPA Pollution Category: D 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Yes		
	Irritating to skin and eyes. If swallowed will cause nausea. Remove contaminated 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 or milk. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.				 5.1 Reactivity with Water: No reaction; Releases Hydrogen Chloride 5.2 Reactivity with Common Materials: Currently not available 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 5.5 Polymerization: Not pertinent 	9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 53.5 9.3 Boiling Point at 1 atm: Not pertinent (decomposes)		
Water Pollution	May be dangerous if it enters water intakes.				5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6.1 Aquatic Toxicity: 6 ppm/96 hr/sunfish TL_v/fresh water	 9.4 Freezing Point: Not pertinent 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.53 at 20°C (solid) 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent 9.13 Heat of Combustion: Not pertinent 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: 130 Birl/b = 72 ca/a = 3.0 		
1. CORRECTIVE RESPONSE ACTIONS 2. CHEMICAL DESIGNATIONS Dilute and disperse 2.1 CG Compatibility Group: Not listed Stop discharge 2.1 CG Compatibility Group: Not listed 2.2 Formula: NH4Cl 2.3 IMO/NUN Designation: Not listed 2.4 DOT ID No: Not listed 2.5 CAS Registry No: 12125-02-9 2.6 NAERG Guide No: 171 2.7 Standard Industrial Trade Classification: 52321				 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed 				
 HEALTH HAZARDS Personal Protective Equipment: Gloves of any material; safety glasses or chemical safety goggles; dust mask or respirator as necessary Symptoms Following Exposure: Inhalation of fumes initiates respiratory passages. Ingestion initiates mouth and stomach. Tumes are initiating to eyse. Contact with skin may cause initiation. Treatment of Exposure: INHALATION: remove to tresh air. INGESTION: give large amount of water; get medical attention if irritation persists. EYES OR SKIN: flush with plenty of water. TLV-TWA: 10 mg/m (fume). TLV-TWA: 10 mg/m (fume). TLV-STEL: Not listed. TLV-Getling: 20 mg/m (fume). Toxicity by Inhalation: Currently not available. Orhonit Toxicity: Currently not available Orhonet Toxicity: Currently not a				NOTE	9.15 Heat of Solution: 130 Btu/lb = 72 cal/g = 3.0 X 10 ⁵ J/kg 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Reid Vapor Pressure: Currently not available 55			

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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
	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
34 36 38 40 42 44 46 48 50 52 54 54 56 60 62 64 66 68 60 62 64 66 68 70 72 74 76 78 80 82 84	29.840 30.290 30.730 31.180 31.620 32.070 32.510 33.400 33.840 34.730 35.180 35.620 36.570 36.510 36.510 36.510 37.400 37.400 37.400 37.400 38.730 39.180 39.620 40.070 40.510 40.950		N OOT PERTINENT		N O T P E R T I N E N T		N O T P E R T I N E N T