## AMMONIUM NITRATE-SULFATE MIXTURE

Common Synonyms Mixed fertilizers		Solid	Grayish-white	Odorless		
		Sinks and mixes with water.				
Call fire de Avoid conta Isolate and Notify local	partment. act with solid a I remove disch	e. Keep people nd dust. arged material. Ilution control a				
Fire	POISONOUS Irritating gas Containers r Wear goggle	t flammable lincrease the intensity of a fire. ISONOUS GASES MAY BE PRODUCED IN FIRE. ating gases may be produced when heated. ntainers may explode in fire. Par goggles and self-contained breathing apparatus. od discharge area with water.				
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 artificail respiration. If breathing is difficult, give oxygen.					
	Harmful if sv Remove cor Flush affecto IF IN EYES, IF SWALLO or milk. IF SWALLO	ntaminated clotl ed areas with p hold eyelids op WED and victir	pen and flush with plenty of wate m is CONSCIOUS, have victim of m is UNCONSCIOUS OR HAVIN	Irink water		
Water Pollution	Notify local I	concentration nealth and wildl tors of nearby				

1. CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed 2.2 Formula: NH-INO-(NH-I)sOa 3.1 IMO/UN Designation: 9/2069 2.4 DOT ID No.: 2069 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: 140 2.7 Standard Industrial Trade Classification: 56212				
3. HEALTH H	IAZARDS				
3.1 Personal Protective Equipment: Self-contained b At other times a dust mask is adequate.	preathing apparatus must be used when fighting fires.				
3.2 Symptoms Following Exposure: Inhalation cause causes irritation.	es irritation of nose and throat. Contact with eyes				
3.3 Treatment of Exposure: INHALATION: move to fi	resh air. EYES: flush with water for 15 min.				
3.4 TLV-TWA: Not listed.					
3.5 TLV-STEL: Not listed.					
3.6 TLV-Ceiling: Not listed.					
3.7 Toxicity by Ingestion: Grade 3; oral rat LD <sub>50</sub> = 58	3 mg/kg (ammonium sulfate)				
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: Odorless	allable				
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					

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Not flammable	7.1 Grades of Purity: Several grades of varying composition, all of which contain less than 70°
4.2 Flammable Limits in Air: Not pertinent	of ammonium nitrate, the only hazardous
4.3 Fire Extinguishing Agents: Water	ingredient.
4.4 Fire Extinguishing Agents Not to Be	7.2 Storage Temperature: Ambient
Used: Steam, inert gases, foam, dry chemical	7.3 Inert Atmosphere: Ventilated (natural)
4.5 Special Hazards of Combustion	7.4 Venting: Open
Products: Toxic and irritating oxides of	7.5 IMO Pollution Category: Currently not availabl
nitrogen may form in fires.	7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available
4.6 Behavior in Fire: Will increase intensity of fire when in contact with combustible	7.7 Barge Hull Type: Currently not available
material. Containers may explode.	8. HAZARD CLASSIFICATIONS
4.7 Auto Ignition Temperature: Not pertinent	8.1 49 CFR Category: Oxidizer
4.8 Electrical Hazards: Not pertinent	8.2 49 CFR Class: 5.1
4.9 Burning Rate: Not pertinent	8.3 49 CFR Package Group: III
4.10 Adiabatic Flame Temperature: Not	8.4 Marine Pollutant: No
pertinent	8.5 NFPA Hazard Classification: Not listed
4.11 Stoichometric Air to Fuel Ratio: Not pertinent	8.6 EPA Reportable Quantity: Not listed
4.12 Flame Temperature: Not pertinent	8.7 EPA Pollution Category: Not listed
4.13 Combustion Molar Ratio (Reactant to	8.8 RCRA Waste Number: Not listed
Product): Currently not available	8.9 EPA FWPCA List: Not listed
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
	9. PHYSICAL & CHEMICAL PROPERTIES
5. CHEMICAL REACTIVITY	9.1 Physical State at 15° C and 1 atm: Solid
5.1 Reactivity with Water: No reaction	9.2 Molecular Weight: Not pertinent
5.2 Reactivity with Common Materials:	9.3 Boiling Point at 1 atm: Not pertinent
Corrodes metals to same degree as	9.4 Freezing Point: Not pertinent
ordinary fertilizer; the reaction is not hazardous.	9.5 Critical Temperature: Not pertinent
5.3 Stability During Transport: Stable	9.6 Critical Pressure: Not pertinent
5.4 Neutralizing Agents for Acids and	9.7 Specific Gravity: 1.8 at 20°C (solid)
Caustics: Not pertinent	9.8 Liquid Surface Tension: Not pertinent
5.5 Polymerization: Not pertinent	9.9 Liquid Water Interfacial Tension: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent	9.10 Vapor (Gas) Specific Gravity: Not pertinent
	9.11 Ratio of Specific Heats of Vapor (Gas):
6. WATER POLLUTION	Not pertinent
6.1 Aquatic Toxicity: Currently not available	9.12 Latent Heat of Vaporization: Not pertinent
6.2 Waterfowl Toxicity: Currently not	9.13 Heat of Combustion: Not pertinent
available 6.3 Biological Oxygen Demand (BOD):	9.14 Heat of Decomposition: Currently not available
Currently not available	9.15 Heat of Solution: Currently not available
6.4 Food Chain Concentration Potential:	9.16 Heat of Polymerization: Not pertinent
None 6.5 GESAMP Hazard Profile: Not listed	9.17 Heat of Fusion: Currently not available
6.5 GESAMP Hazard Profile: Not listed	9.18 Limiting Value: Currently not available
	9.19 Reid Vapor Pressure: Currently not available
NOTE	5

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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 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
	V E R Y S O L U B L E		N O T P E R T I N E N T T		N O T P E R T I N E N T		N O T P E R T I N E N T