AMMONIUM SULFAMATE

 SHIPPING INFORMATION
 Grades of Purity: Reagent, 99.0%; Commercial, 80%

7.5 IMO Pollution Category: Currently not available

8. HAZARD CLASSIFICATIONS

7.2 Storage Temperature: Ambient

7.4 Venting: Open

7.3 Inert Atmosphere: No requirement

7.6 Ship Type: Currently not available7.7 Barge Hull Type: Currently not available

8.1 49 CFR Category: Not listed

8.2 49 CFR Class: Not pertinent

8.7 EPA Pollution Category: D 8.8 RCRA Waste Number: Not listed

9.2 Molecular Weight: 114.13

8.9 EPA FWPCA List: Yes

8.3 49 CFR Package Group: Not listed.8.4 Marine Pollutant: No

8.5 NFPA Hazard Classification: Not listed 8.6 EPA Reportable Quantity: 5000

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Solid

9.3 Boiling Point at 1 atm: Decomposes above 200°C

9.4 Freezing Point: 268°F = 131°C = 404°K

9.5 Critical Temperature: Not pertinent

9.7 Specific Gravity: > 1 at 20°C (solid)9.8 Liquid Surface Tension: Not pertinent

9.9 Liquid Water Interfacial Tension: Not

9.10 Vapor (Gas) Specific Gravity: Not pertinent

9.11 Ratio of Specific Heats of Vapor (Gas):

9.14 Heat of Decomposition: Not pertinent9.15 Heat of Solution: Currently not available

9.16 Heat of Polymerization: Not pertinent
9.17 Heat of Fusion: Currently not available
9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: Currently not available

9.12 Latent Heat of Vaporization: Not pertinent9.13 Heat of Combustion: Not pertinent

9.6 Critical Pressure: Not pertinent

ertinent

Not pertinent

NOTES

	CAUTIONARY RESP	ONSE INFORMATION	4. FIRE HAZARDS
Common Sync nmate nmonium amidosulf nmonium amidosulf MS ulfamic acid, monoa alt	onate ohate Sinks and mixes	White or brownish-gray Odorless with water.	 4.1 Flash Point: Not flammable 4.2 Flammable Limits in Air: Not flammable 4.3 Fire Extinguishing Agents: Not pertinent 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 4.5 Special Hazards of Combustion Products: Toxic oxides of nitrogen may
Avoid cont Isolate and	arge if possible. Keep people aw act with solid and dust. Avoid inh I remove discharged material. I health and pollution control agen	alation.	form in fires. 4.6 Behavior in Fire: Currently not available 4.7 Auto Ignition Temperature: Not pertinent 4.8 Electrical Hazards: Not pertinent
Fire	Not flammable. POISONOUS GASES MAY BE Wear goggles and self-contain		 4.9 Burning Rate: Not pertinent 4.10 Adiabatic Flame Temperature: Not pertinent 4.11 Stoichometric Air to Fuel Ratio: Not
Exposure	CALL FOR MEDICAL AID. DUST Irritating to eyes, nose and thru If inhaled will cause coughing o If in eyes, hold eyelids open ar If breathing has stopped, give a If breathing is difficult, give oxy	r difficult breathing. d flush with plenty of water. artificial respiration.	4.11 Stolicolitent of the Ratio Pole 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
	or milk.	and shoes. y of water. and flush with plenty of water. CONSCIOUS, have victim drink water UNCONSCIOUS OR HAVING CONVULSIONS,	5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 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
Water Pollution	Dangerous to aquatic life in hig May be dangerous if it enters w Notify local health and wildlife Notify operators of nearby wat	vater intakes. ifficials.	5.6 Inhibitor of Polymerization: Not pertinent 6. WATER POLLUTION 6.1 Aquatic Toxicity:
I. CORRECTIVE Dilute and Stop disch		2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed 2.2 Formula: NH-SO-NH-4 2.3 IMO/IND Designation: Not listed 2.4 DOT ID No: Not listed 2.5 CAS Registry No: 7773-06-0 2.6 NAERG Guide No.: 171 2.7 Standard Industrial Trade Classification: 51481 HAZARDS	available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed
 Treatment of B get medica TLV-TWA: 10 r TLV-STEL: Nol TLV-STEL: Nol Troxicity by Ing Troxicity by Ing Toxicity by Ing Chronic Toxici 10 Vapor (Gas) Ir 11 Liquid or Solii 12 Odor Thresho 3.13 IDLH Value: 1 	I attention. EYES: flush with wate mg/m ³ listed. estion: Grade 2; oral rat LDso = alation: Currently not available ty: Currently not available ritant Characteristics: Currently d Characteristics: Currently not a di: Currently not available 500 mg/m ³ VA: 15 mg/m ³ total dust; 5 mg/m ³ FL: Not listed.	to fresh air. INGESTION: give large amount of water; er for 15 min. SKIN: flush with water. 1,600 mg/kg not available available	

AMMONIUM SULFAMATE

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 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 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	140.199 144.400 148.699 152.900 157.099 161.299 165.500 166.799 174.000 178.199 182.400 186.699 190.900 195.099 199.299 203.500 207.799 212.000 216.199 228.900 233.099 233.099 233.299 241.500		N O T E R T I N E N T		N O T E R T I N E N T		N O T P E R T I N E N T