

AMMONIUM LAURYL SULFATE

ALS

CAUTIONARY RESPONSE INFORMATION		
Common Synonyms Dodecyl sulfate, ammonium salt Lauryl ammonium sulfate	Liquid	Light yellow
Stop discharge if possible. Keep people away. Avoid contact with liquid. Isolate and remove discharged material. Notify local health and pollution control agencies.		
Fire	Not flammable. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles and self-contained breathing apparatus.	
Exposure	CALL FOR MEDICAL AID. LIQUID Irritating to skin and eyes. Harmful if swallowed. 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.	
Water Pollution	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.	

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Dilute and disperse Stop discharge	<p>2.1 CG Compatibility Group: Not listed 2.2 Formula: <chem>C12H25SO3NH+H2O</chem> 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: 68081969 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51481</p>
3. HEALTH HAZARDS	
<p>3.1 Personal Protective Equipment: Rubber gloves; goggles or face shield 3.2 Symptoms Following Exposure: Contact with liquid irritates eyes and may have drying effect on the skin. Prolonged contact will cause skin irritation. 3.3 Treatment of Exposure: EYES OR SKIN: flush with water. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: LD50 (est) = <5 g/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquor or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 3.13IDLH 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</p>	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Not pertinent (non-combustible water solution)	7.1 Grades of Purity: 28-30% solution in water
4.2 Flammable Limits in Air: Not pertinent	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Not pertinent	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Open
4.5 Special Hazards of Combustion Products: Toxic oxides of nitrogen and sulfur may form in fires.	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: Currently not available	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Not pertinent	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Not pertinent	
4.9 Burning Rate: Not pertinent	
4.10 Adiabatic Flame Temperature: Not pertinent	
4.11 Stoichiometric 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	
8. HAZARD CLASSIFICATIONS	9. PHYSICAL & CHEMICAL PROPERTIES
8.1 49 CFR Category: Not listed	9.1 Physical State at 15°C and 1 atm: Liquid
8.2 49 CFR Class: Not pertinent	9.2 Molecular Weight: 283 (solute only)
8.3 49 CFR Package Group: Not listed	9.3 Boiling Point at 1 atm: Not pertinent
8.4 Marine Pollutant: No	9.4 Freezing Point: Not pertinent
8.5 NFPA Hazard Classification:	9.5 Critical Temperature: Not pertinent
Category Classification Health Hazard (Blue)..... 3 Flammability (Red)..... 2 Instability (Yellow)..... 0	9.6 Critical Pressure: Not pertinent
8.6 EPA Reportable Quantity: Not listed	9.7 Specific Gravity: 1.03 at 20°C (liquid)
8.7 EPA Pollution Category: Not listed	9.8 Liquid Surface Tension: Currently not available
8.8 RCRA Waste Number: Not listed	9.9 Liquid Water Interfacial Tension: Not pertinent
8.9 EPA FWCNA List: Not listed	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: Not pertinent
	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

NOTES

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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
68	64.290		N O T P E R T I N E N T		N O T P E R T I N E N T	77	900.000

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		N O T P E R T I N E N 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