SODIUM ALUMINATE SOLUTION (45% OR LESS)

(ONSE INFORMATIO	DN	4. FIRE HAZARDS				
Common Synonyms Liquid		Colorless to amber	Odorless	 4.1 Flash Point: Not flammable. 4.2 Flammable Limits in Air: Not pertinent. 4.3 Fire Extinguishing Agents: Use extinguishing agents appropriate for the 					
Restrict acc Avoid conta approved re	cess. act with liquid a espirator. health and po	tive clothing, gloves Ind vapor. Iution control agenc			Surrounding fire. 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent. 4.5 Special Hazards of Combustion Products: Not pertinent.				
Fire	Wear full protective clothing with self-contained breathing apparatus. 4.7 Auto Ignition Temperature: pertinent. Use exitinguishing agents appropriate for the surrounding fire. 9.8 Electrical Hazards: Not pertinent. Use water spray to cool exposed containers. 4.8 Electrical Hazards: Not pertinent.								
Exposure	CALL FOR MEDICAL AID. 4.9 Burning Rate: Not pertinent. LIQUID Remove contaminated clothing and shoes. 4.10 Adiabatic Flame Temperature: Not pertinent. Flush affected areas with water. Flush affected areas with water. 4.11 Stoichometric Air to Fuel Ratio: Not pertinent. IF IN EYES, hold eyelids open and flush with plenty of water. 4.12 Flame Temperature: Not pertinent. 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent. IF SWALLOWED and victim is CONSCIOUS, dilute by drinking water or milk. 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.								
Water Pollution	May be dan Notify local	concentrations on gerous if it enters wa health and wildlife of tors of nearby wate	ficials.		4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 5. CHEMICAL REACTIVITY				
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Dilute and disperse			2. CHEMICAL DE: 2.1 CG Compatibility Gr 2.2 Formula: NaA/O2 2.3 IMO/UN Designation available 2.4 DOT ID No.: 1819 2.5 CAS Registry No.: 1 2.6 NAERG Guide No.: 1 2.7 Standard Industrial 5.2269 HAZARDS	oup: 5; Caustics : Currently not 1138-49-1 54	5.1 Reactivity with Water: No reaction. 5.2 Reactivity with Common Materials: Not compatible with copper, tin, zinc, aluminum, acids, phosphorus, or chlorocarbons. 5.3 Stability During Transport: Stable. 5.4 Neutralizing Agents for Acids and Caustics: Weak acid. 5.5 Polymerization: Will not polymerize. 5.6 Inhibitor of Polymerization: Not pertinent. 6. WATER POLLUTION				
and approv 3.2 Symptoms Foll causing red 3.3 Treatment of E occasionally with weak v Do not indu 3.4 TLV-TWA: Not 1 3.5 TLV-STEL: Not 3.6 TLV-Ceiling: No 3.7 Toxicity by Inge 3.8 Toxicity by Inge 3.8 Toxicity by Inge 3.9 Chronic Toxicit 3.10 Vapor (Gas) Irr usually tole 3.11 Liquid or Solid	ed respirator. owing Expos mess of skin a xposure: Get y. SKIN: Renr inegar. INGE ce vomiting. listed. listed. bitisted. bitisted. setion: Currer scurrently n titant Characterist nay cause see d: Currently n to fisted.	ure: Material is cau nd eyes, burning se medical attention. E ove contaminated c STION: Dilute by dr tty not available ntiy not available ot available eristics: Vapors ar or high concentrati ics: Causes smartii ond-degree burns o	ng of the skin and first-degree b	astrointestinal tract, min., lifting lids vater and neutralize by drinking fruit juice.	 6.1 Aquatic Toxicity: 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: Bioaccumulation: 0 Damage to living resources: 1 Human Oral hazard: 1 Human Contact hazard: 1 Reduction of amenities: 0 				
3.15 OSHA PEL-STI 3.16 OSHA PEL-Cei 3.17 EPA AEGL: No	EL: Not listed. ling: Not liste	1.			NOTES				

7. SHIPPING INFORMATION							
1 Grades of Purity: Technical grades of varying concentrations.							
2 Storage Temperature: Ambient.							
3 Inert Atmosphere: No requirement.							
4 Venting: Open.							
5 IMO Pollution Category: D							
6 Ship Type: 3							
7 Barge Hull Type: 3							
8. HAZARD CLASSIFICATIONS							
1 49 CFR Category: Corrosive material							
2 49 CFR Class: 8							
3 49 CFR Package Group: Currently not available.							
4 Marine Pollutant: No							
5 NFPA Hazard Classification:							
Category Classification Health Hazard (Blue) 3							
Flammability (Red)0							
Instability (Yellow)							
6 EPA Reportable Quantity: Not listed.							
7 EPA Pollution Category: Not listed.							
8 RCRA Waste Number: Not listed							
9 EPA FWPCA List: Not listed							
9. PHYSICAL & CHEMICAL PROPERTIES							
1 Physical State at 15° C and 1 atm: Liquid.							
2 Molecular Weight: 81.97							
3 Boiling Point at 1 atm: 239°F = 115°C = 388°K							
4 Freezing Point: 32°F = 0°C = 273°K							
5 Critical Temperature: Currently not available							
6 Critical Pressure: Currently not available							
7 Specific Gravity: 1.55 @ 25°C.							
8 Liquid Surface Tension: Currently not available							
9 Liquid Water Interfacial Tension: Currently not available							
10 Vapor (Gas) Specific Gravity: Currently not available							
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- 9.11 Ratio of Specific Heat Currently not available
- 9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available
- 9.13 Heat of Combustion: Currently not available
 9.14 Heat of Decomposition: Currently not available
 9.15 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

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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
77	12.940		C U R R E N T L Y N O T A V A I L A B L E		CURRENTLY NOT AVAILABLE		C U R R E N T L Y N O T A V A I L A B L E

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
	C UR R E N T L Y N O T A V A I L A B L E		C URRENTLY NOT AVAILABLE		C URRENTLY NOT AVAILABLE		C U R R E N T L Y N O T A V A I L A B L E