

BOILER COMPOUND, LIQUID

BCP

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Liquid	Colorless to brown	Odorless or mild odor
Alkaway liquid alkaline deruster Sinks and mixes with water.			
Restrict access. Avoid contact with liquid. Notify local health and pollution control agencies. Protect water intakes.			
Fire	Not flammable. Flammable gas may be produced on contact with metals. Cool exposed containers with water.		
Exposure	Call for medical aid. LIQUID Will burn 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. DO NOT INDUCE VOMITING.		
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 Chemical and Physical Treatment: Neutralize	2.1 CG Compatibility Group: Not listed. 2.2 Formula: Not pertinent 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: Not listed 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 59890
3. HEALTH HAZARDS	
3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves; protective clothing. 3.2 Symptoms Following Exposure: Contact of liquid with eyes causes severe caustic burns. Also causes caustic burns of skin if not washed off immediately. Ingestion causes caustic burns of mouth and stomach. 3.3 Treatment of Exposure: Basic treatment is identical with that for caustic soda or caustic potash solutions. EYES: flush with water for at least 15 min.; call a doctor. SKIN: flush with water; wash with soap and water. INGESTION: give large amounts of water. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Not pertinent 3.10 Vapor (Gas) Irritant Characteristics: Not pertinent 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 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 A EGL: Not listed	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Not flammable	7.1 Grades of Purity: Various commercial grades, some of which contain chelating and complexing agents for metals.
4.2 Flammable Limits in Air: Not flammable	7.2 Storage Temperature: Ambient, preferably 40-100°F
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: Not pertinent	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: May burst container	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: Currently not available	
4.11 Stoichiometric Air to Fuel Ratio: Not pertinent	
4.12 Flame Temperature: Currently not available	
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent	
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: Not pertinent
8.3 49 CFR Package Group: Not listed.	9.3 Boiling Point at 1 atm: >220°F = >104°C = >377°K
8.4 Marine Pollutant: No	9.4 Freezing Point: Not pertinent
8.5 NFPA Hazard Classification: Not listed	9.5 Critical Temperature: Not pertinent
8.6 EPA Reportable Quantity: Not listed.	9.6 Critical Pressure: Not pertinent
8.7 EPA Pollution Category: Not listed.	9.7 Specific Gravity: 1.48 at 20°C (liquid)
8.8 RCRA Waste Number: Not listed	9.8 Liquid Surface Tension: Not pertinent
8.9 EPA FWPCA List: Not listed	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: 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
52	92.379	51	0.779	51	4.031		N O T
54	92.379	52	0.779	52	4.031		
56	92.379	53	0.779	53	4.031		
58	92.379	54	0.779	54	4.031		
60	92.379	55	0.779	55	4.031		
62	92.379	56	0.779	56	4.031		
64	92.379	57	0.779	57	4.031		
66	92.379	58	0.779	58	4.031		
68	92.379	59	0.779	59	4.031		
70	92.379	60	0.779	60	4.031		
72	92.379	61	0.779	61	4.031		
74	92.379	62	0.779	62	4.031		
76	92.379	63	0.779	63	4.031		
78	92.379	64	0.779	64	4.031		
80	92.379	65	0.779	65	4.031		
82	92.379	66	0.779	66	4.031		
84	92.379	67	0.779	67	4.031		
86	92.379	68	0.779	68	4.031		
		69	0.779	69	4.031		
		70	0.779	70	4.031		
		71	0.779	71	4.031		
		72	0.779	72	4.031		
		73	0.779	73	4.031		
		74	0.779	74	4.031		
		75	0.779	75	4.031		
		76	0.779	76	4.031		

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 T		N O T P E R T I N E T		N O T P E R T I N E T