1. CORRECTIVE RESPONSE ACTIONS

1.1 Dilute and disperse
Collection Systems: Pump; Dredge
Do not burn

1.2 CHEMICAL DESIGNATIONS
2.1 CG Compatibility Group: Not listed.
2.2 Formula: C3H6BrO
2.3 IMON Designation: 615569
2.4 DOT ID No.: 1569
2.5 CAS Registry No.: 199-05-1
2.6 NAEP Guide No.: 131
2.7 Standard Industrial Trade Classification: 51625

2. HEALTH HAZARDS
3.1 Personal Protective Equipment: Self-contained breathing apparatus, chemical-resistant gloves, rubber boots, full protective clothing.
3.2 Symptoms Following Exposure: Very powerful lacrimator and upper respiratory tract irritant. Intensely irritating to the eyes, nose, throat, and lungs. Corrosive to the skin.
3.3 Treatment of Exposure: Call a physician. EYES: Hold eyelids open and flush with water for at least 15 minutes. SKIN: Remove contaminated clothing and shoes, flush affected areas with plenty of water for at least 15 minutes. INHALATION: Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. INGESTION: Do nothing except keep victim warm.
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: May cause pulmonary edema.
3.10 Vapor (Gas) Irritant Characteristics: Vapors cause severe irritation of eyes and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations.
3.11 Liquid or Solid Characteristics: Severe skin irritant. Causes second and third degree burns on contact and is very injurious to the eyes.
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 AEGL: Not listed

4. FIRE HAZARDS
4.1 Flash Point: 24°F
4.2 Flammable Limits in Air: Currently not available
4.3 Fire Extinguishing Agents: CO2, dry chemical, foam
4.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective against fire.
4.5 Special Hazards of Combustion: Products: Toxic fumes of Bromine
4.6 Behavior in Fire: Currently not available
4.7 Auto Ignition Temperature: Currently not available
4.8 Electrical Hazards: Currently not available
4.9 Burning Rate: Currently not available
4.10 Adiabatic Flame Temperature: Currently not available
4.11 Stoichiometric Air to Fuel Ratio: 16.7 (calc.)
4.12 Flame Temperature: Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): 6.0 (calc.)
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY
5.1 Reactivity with Water: No reaction
5.2 Reactivity with Common Materials: No reaction
5.3 Stability During Transport: Stable
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent
5.5 Polymerization: Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION
6.1 Aquatic Toxicity: TL96: 10-100 ppm
6.2 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): Currently not available
6.4 Food Chain Concentration Potential: Not listed
6.5 GESAMP Hazard Profile: Bioaccumulation: 0
6.6 Human Oral Hazard: 3
6.7 Human Contact Hazard: II
6.8 Reduction of amenities: XXX

7. SHIPPING INFORMATION
7.1 Grades of Purity: Currently not available
7.2 Storage Temperature: Currently not available
7.3 Inert Atmosphere: None
7.4 Venting: None
7.5 IMO Pollution Category: Currently not available
7.6 Ship Type: Currently not available
7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS
8.1 49 CFR Category: Poison
8.2 49 CFR Class: 6.1
8.3 49 CFR Package Group: II
8.4 Marine Pollutant: Yes
8.5 NFPA Hazard Classification: Not listed
8.6 EPA Reportable Quantity: 1000 pounds
8.7 EPA Pollution Category: C
8.8 RCRA Waste Number: P017
8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES
9.1 Physical State at 15°C and 1 atm: Liquid
9.2 Molecular Weight: 136.98
9.3 Boiling Point at 1 atm: 277°F = 136°C = 409°F
9.4 Freezing Point: -33.7°F = -35.6°C = 236.7°F
9.5 Critical Temperature: Currently not available
9.6 Critical Pressure: Currently not available
9.7 Specific Gravity: 1.634 at 23°C
9.8 Liquid Surface Tension: Currently not available
9.9 Liquid Water Interfacial Tension: Currently not available
9.10 Vapor (Gas) Specific Gravity: 4.72
9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
9.12 Latent Heat of Vaporization: Currently not available
9.13 Heat of Combustion: Currently not available
9.14 Heat of Deposition: Currently not available
9.15 Heat of Solution: Currently not available
9.16 Heat of Polymerization: Currently not available
9.17 Heat of Fusion: Currently not available
9.18 Limiting Value: Currently not available
9.19 Heat of Vapor Pressure: Currently not available

NOTES

JUNE 1999
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