BROMOACETYL BROMIDE

1. CORRECTIVE RESPONSE ACTIONS

- DILUTE AND DISPERSE
- STOP DISCHARGE
- CHEMICAL AND PHYSICAL TREATMENT: NEUTRALIZE
- DO NOT ADD WATER TO UNSOLVED MATERIAL

2. CHEMICAL DESIGNATIONS

- CG Compatibility Group: Not listed
- Formula: BrCH₂CO₂ Br
- DOT ID No.: 2513
- CAS Registry No.: 598-21-0
- Standard Industrial Trade Classification: S172

3. HEALTH HAZARDS

- Personal Protective Equipment: Acid-type canister mask; self-contained breathing apparatus (full face); rubber gloves and full protective clothing
- Symptoms Following Exposure: Inhalation causes severe irritation of upper respiratory system. External contact causes severe irritation of eyes and skin. Ingestion causes severe irritation of mouth and stomach.
- Treatment of Exposure: INHALATION: Remove from exposure; support respiration, call physician. SKIN: Wash with large amounts of water; treat burns as required. INGESTION: Do NOT induce vomiting; give large amounts of water, call a physician.
- TLV-TWA: Not listed
- TLV-STEL: Not listed
- TLV- Ceiling: Not listed
- Toxicity by Inhalation: Currently not available
- Toxicity by Ingestion: Currently not available
- Chronic Toxicity: Currently not available
- Vapor: Irritant, dry irritating, skin and eye irritant
- Odor: Not pertinent
- Dilution Value: Not listed
- OSHA PEL-TWA: Not listed
- OSHA PEL-STEL: Not listed
- EPA AEG/L: Not listed

4. FIRE HAZARDS

- Flash Point: Not flammable
- Flammable Limits in Air: Not flammable
- Fire Extinguishing Agents: Not pertinent
- Fire Extinguishing Agents Not To Be Used: Do not use water on adjacent fires.
- Special Hazards of Combustion: Heat of fire can cause decomposition, with evolution of highly toxic and irritating hydrogen bromide and bromophosgene vapors.
- Behavior in Fire: Highly irritating (bear gas) vapors released when heated. Hydrogen bromide gas is released if in contact with water.
- Auto Ignition Temperature: Not pertinent
- Electrical Hazards: Not pertinent
- Flash Rate: Not pertinent
- Adiabatic Flame Temperature: Currently not available
- Stoichiometric Air to Fuel Ratio: Not pertinent
- Flame Temperature: Currently not available
- Combustion Molar Ratio (Reactant to Product): Not pertinent
- Minimum Oxygen Concentration for Combustion: Currently not available

5. CHEMICAL REACTIVITY

- Reactivity with Water: Reacts vigorously to generate hydrogen bromide (hydrobromic acid).
- Reactivity with Common Materials: Will react with surface moisture to generate hydrogen bromide, which is corrosive to metal.
- Stability During Transport: Stable
- Neutralizing Agents for Acids and Causatives: Flush with water, rinse with sodium bicarbonate or lime solution.
- Polymerization: Not pertinent
- Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

- Aquatic Toxicity: Currently not available
- Waterfowl Toxicity: Currently not available
- Biological Oxygen Demand (BOD): Currently not available
- Food Chain Concentration Potential: Currently not available
- GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 0 Human Contact hazard: 0 Reduction of amenities: XX

7. SHIPPING INFORMATION

- Grades of Purity: Commercial
- Storage Temperature: Ambient
- Inert Atmosphere: Not pertinent
- Venting: Not pertinent
- IMO Pollution Category: Currently not available
- Ship Type: Currently not available
- Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS

- 49 CFR Category: Corrosive material
- 49 CFR Class: II
- 49 CFR Package Group: II
- Marine Pollutant: No
- NFPA Hazard Classification: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

- Physical State at 15°C and 1 atm: Liquid
- Molecular Weight: 201.85
- Boiling Point at 1 atm: 201°F = 421°F
- Freezing Point: Currently not available
- Critical Temperature: Not pertinent
- Critical Pressure: Currently not available
- Specific Gravity: 2.317 at 20°C (liquid)
- Liquid Surface Tension: Currently not available
- Liquid Water Interfacial Tension: Not pertinent
- Vapor (Gas) Specific Gravity: Currently not available
- Ratio of Specific Heats of Vapor (Gas): Currently not available
- Heat of Vaporization: Currently not available
- Heat of Combustion: Not Listed
- Heat of Decomposition: Not pertinent
- Heat of Solution: Currently not available
- Heat of Polymerization: Not pertinent
- Heat of Fusion: Currently not available
- Melting Value: Currently not available
- Reid Vapor Pressure: Currently not available

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<th>LIQUID HEAT CAPACITY</th>
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JUNE 1999