1. CORRECTIVE RESPONSE ACTIONS

Dilute and disperse. Stop discharge. Do not burn.

2. CHEMICAL DESIGNATIONS

2.1 DOT Compatibility Group: Not listed.
2.2 Formula: OBr
2.3 IMO/UN Designation: 2.8
2.4 DOT ID No.: 1889
2.5 CAS Registry No.: 506-68-3
2.6 NACRO Guide No.: 157
2.7 Standard Industrial Trade Classification: 52381

3. HEALTH HAZARDS

3.1 Personal Protective Equipment: Chemical cartridge respirator, goggles, protective clothing, rubber gloves.
3.2 Symptoms Following Exposure: Same symptoms as hydrogen cyanide. Because it irritates the eyes, throat, and lungs severely, it is unlikely that anyone would voluntarily remain in areas with a high enough concentration to exert a cyanide effect.
3.3 Treatment of Exposure: Call a physician. INHALED OR IF SKIN IS EXPOSED: Irritating to eyes. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.
3.4 Water Pollution: Harmful to aquatic life in very low concentrations. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

4. FIRE HAZARDS

4.1 Flash Point: Not flammable
4.2 Flammable Limits in Air: Not flammable
4.3 Fire Extinguishing Agents: Not pertinent
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent
4.5 Special Hazards of Combustion: Products: Poison gases are produced in fire.
4.6 Behavior in Fire: Not pertinent
4.7 Auto Ignition Temperature: Not flammable
4.8 Electrical Hazards: Not pertinent
4.9 Buming Rate: Not flammable
4.10 Explosive Limit: 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

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 Alkalis: Not pertinent
5.5 Biological Oxidation Demand (BOD): Not pertinent
5.6 Inhibitor of Polymerization: Not pertinent

6. WATER POLLUTION

6.1 Aquatic Toxicity: Not currently available
6.2 Waterfowl Toxicity: Currently not available
6.3 Biological Oxygen Demand (BOD): Currently not available
6.4 Food Chain Concentration Potential: None
6.5 GESAMP Hazard Profile: Not pertinent
6.6 GESAMP Hazard Profile: Bioaccumulation: 0
6.7 GESAMP Hazard Profile: Damage to living resources: 4
6.8 Human Oral hazard: 3
6.9 Human Contact hazard: 2
6.10 Reduction of amenities: XX

7. SHIPPING INFORMATION

7.1 Grades of Purity: Currently not available
7.2 Storage Temperature: Currently not available
7.3 Inert Atmosphere: Currently not available
7.4 Venting: Currently not available
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 NFPA Health Hazard: 0
8.2 NFPA Flammability: 0
8.3 NFPA Reactivity: 0
8.4 Marine Pollutant: Yes
8.5 NFPA Hazard Classification: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State at 15° C and 1 atm: Solid
9.2 Molecular Weight: 105.93
9.3 Boiling Point at 1 atm: Not pertinent
9.4 Freezing Point: 120 to 124°F = 49 to 51°C = 322 to 324°F
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 2.015 at 20°C (solid)
9.8 Liquid Surface Tension: Not pertinent
9.9 Liquid Water Interface Tension: Not pertinent
9.10 Vapor (Gas) Specific Gravity: 3.6
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: Not available
9.18 Limiting Value: Currently not available
9.19 Reid Vapor Pressure: Currently not available

NOTES

9.4 Inhibitor of Polymerization: Currently not available
9.5 Neutralizing Agents for Acids and Alkalis: Not pertinent
9.6 Aquatic Toxicity: Not currently available
9.7 GESAMP Hazard Profile: Bioaccumulation: 0
9.8 GESAMP Hazard Profile: Damage to living resources: 4
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CBR JUNE 1999
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