**1. CORRECTIVE RESPONSE ACTIONS**

- Dilute and disperse
- Stop discharge
- Collection Systems: Dredge

**2. CHEMICAL DESIGNATIONS**

- CG Compatibility Group: Not listed
- Formula: K$_2$Cr$_2$O$_7$
- IMO/UN Designation: 9.0/1874
- DOT ID No.: 1479
- CAS Registry No.: 7778-50-9
- NAMRO Guide No.: 140
- Standard Industrial Trade Classification: 52369

**3. HEALTH HAZARDS**

**Fire**
- Not flammable
- May cause fire on contact with combustibles.
- Flood discharge area with water.

**Exposure**
- CALL FOR MEDICAL AID.
- DUST
  - Irritating to eyes, nose, and throat.
  - If inhaled, may cause difficulty breathing.
  - Move to fresh air.
  - If breathing has stopped, give artificial respiration.
- SOLIDS
  - Will burn skin and eyes.
  - If swallowed, will cause nausea, vomiting, or loss of consciousness.
  - Remove contaminated clothing and shoes.

**Water**
- Dangerous to aquatic life in high concentrations.
- Notify local health and wildlife officials.
- Notify operators of nearby water intakes.

**Pollution**
- Notify local health and pollution control agencies.
- Keep people away. Avoid contact with solid and dust.

**4. FIRE HAZARDS**

- **4.1 Flash Point:** Not flammable
- **4.2 Flammable Limits in Air:** Not flammable
- **4.3 Fire Extinguishing Agents:** Flood spill with water.
- **4.4 Fire Extinguishing Agents Not to Be Used:** Not pertinent
- **4.5 Special Hazards of Combustion Products:** Not pertinent
- **4.6 Behavior in Fire:** May decompose, generating oxygen. Supports the combustion of other materials.
- **4.7 Auto-Ignition Temperature:** Not flammable
- **4.8 Electrical Hazards:** Not pertinent
- **4.9 Burning Rate:** Not flammable
- **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

**5. CHEMICAL REACTIVITY**

- **5.1 Reactivity with Water:** No reaction
- **5.2 Reactivity with Common Materials:** Ignition may occur when in contact with finely divided combustibles, such as sawdust.
- **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:** 295 g/m$^2$ hr/kg/lug/m/L/fresh water 17.8 g/m$^2$/hr/salmon/saltwater
- **6.2 Waterfowl Toxicity:** Currently not available
- **6.3 Biological Oxygen Demand (BOD):** None
- **6.4 Food Chain Concentration Potential:** None
- **6.5 GESAMP Hazard Profile:** Bioaccumulation: None
- **6.6 Reduction of amenities:** XX

**7. SHIPPING INFORMATION**

- **7.1 Grades of Purity:** 99.9%
- **7.2 Storage Temperature:** Ambient
- **7.3 Inert Atmosphere:** No requirement
- **7.4 Venting:** Open
- **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:** Oxidizer
- **8.2 49 CFR Class:** 5.1
- **8.3 49 CFR Package Group:** Currently not available.
- **8.4 Marine Pollutant:** No
- **8.5 NFPA Hazard Classification:**
  - Health Hazard (Blue): Not pertinent
  - Flammability (Red): __________ 0
  - Instability (Yellow): __________ 0

**9. PHYSICAL & CHEMICAL PROPERTIES**

- **9.1 Physical State at 15°C:** Solid
- **9.2 Molecular Weight:** 147.9
- **9.3 Boiling Point:** 294°F = 398°C = 671°K
- **9.4 Freezing Point:** Not pertinent
- **9.5 Critical Temperature:** Not pertinent
- **9.6 Critical Pressure:** Not pertinent
- **9.7 Specific Gravity:** 2.767 at 25°C (sld)
- **9.8 Liquid Surface Tension:** Not pertinent
- **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 Human Contact hazard:** None
- **9.18 Limiting Value:** Currently not available
- **9.19 Reid Vapor Pressure:** Currently not available

**NOTES**
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<th>Pounds per cubic foot</th>
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JUNE 1999