LITHARGE

CAUTIONARY RESPONSE INFORMATION Common Synonyms Gray or yellow green or Lead monoxide Lead oxide yellow Lead protoxide Massicot Plumbous oxide Sinks in water Keep people away. Notify local health and pollution control agencies. Not flammable. Fire Call for medical aid. **Exposure** SOLID OR DUST Irritating to eyes. Harmful if inhaled. Move victim to fresh air. If in eyes, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CON VULSIONS, do nothing except keep victim warm. Effect of low concentrations on aquatic life is unknown. Water May be dangerous if it enters water intakes Notify local health and wildlife officials. Notify operators of nearby water intakes. **Pollution**

CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Dredge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: PbO 2.3 IMO/UN Designation: Not listed 2.4 DOT ID No.: 2291 2.5 CAS Registry No.: 1317-36-8 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification: 52257
3. HEALTH H	AZARDS
3.1 Personal Protective Equipment: Dust or metal fu 3.2 Symptoms Following Exposure: General sympto ingestion causes abdominal pain (lead cotic), muscles, and muscular weakness. Dust may i 3.3 Treatment of Exposure: Consult physician after in INGESTION: call physician at once; as first ai sulfate (Epsom salt). 3.4 TLV-TWA: 0.05 mg/m³ as lead 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: Impairs development of human fi 3.10 Vapor (Gas) Irritant Characteristics: Not pertinet 3.11 Liquid or Solid Characteristics: Currently not ava 3.12 Odor Threshold: Odorless 3.13 IDLH Value: 100 mg Pb/m³ 3.14 OSHA PEL-TWA: 0.05 mg/m³ (as lead). 3.15 OSHA PEL-TEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed.	ms of lead poisoning (delayed). Inhalation or netallic taste in mouth, loss of weight, pain in riritate eyes. ngestion or exposure to high concentrations of dust. d, induce vomiting and give milk and magnesium etal connective tissue cells

4. FIRE HAZARDS 7. SHIPPING INFORMATION

- 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: Not pertinent
- 4.6 Behavior in Fire: Not pertinent
- 4.7 Auto Ignition Temperature: Not pertinent
- 4.8 Electrical Hazards: Not pertinent
- 4.9 Burning Rate: Not pertinent
- 4.10 Adiabatic Flame Temperature: Currently not available
- 4.11 Stoichometric Air to Fuel Ratio: Not pertinent.
- 4.12 Flame Temperature: Currently not
- 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
- 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:** > 56,000 ppm/96 hr/mosquito fish/TL_m/turbid water
- 6.2 Waterfowl Toxicity: Currently not
- available **6.3 Biological Oxygen Demand (BOD):**Currently not available
- 6.4 Food Chain Concentration Potential:
- Currently not available 6.5 GESAMP Hazard Profile: Not listed

- 7.1 Grades of Purity: Low-metal-content oxides contain 98 to 99.8%. High metal or battery grades contain 50 to 95%. Reagent; purified. Most grades available in several particle sizes
- 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: Keep Away From Food 8.2 49 CFR Class: 6.1
- 8.3 49 CFR Package Group: III
- 8.4 Marine Pollutant: No
- 8.5 NFPA Hazard Classification: Not listed
- 8.6 EPA Reportable Quantity: Not listed.
- 8.7 EPA Pollution Category: Not listed.
- 8.8 RCRA Waste Number: Not listed
- 8.9 EPA FWPCA List: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1 Physical State at 15° C and 1 atm: Solid
- 9.2 Molecular Weight: 223.2
- 9.3 Boiling Point at 1 atm: Not pertinent (Decomposes)
- 9.4 Freezing Point: Not pertinent
- 9.5 Critical Temperature: Not pertinent
- 9.6 Critical Pressure: Not pertinent
- 9.7 Specific Gravity: 9.5 at 20°C (solid)
- 9.8 Liquid Surface Tension: Not pertinent
- 9.9 Liquid Water Interfacial Tension: Not
- 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: 12.6 cal/g
- 9.18 Limiting Value: Currently not available
- 9.19 Reid Vapor Pressure: Currently not available

NOTES

LITHARGE

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
	N O T		N O T		N O T		N O T
	PERTINENT		PERT INENT		. PERT - NE NT		PERT NENT

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
64	0.007		N O T		N O T		N O T
			P E R T I N E N T		PERTINENT		PERTINENT