

MERCURIC OXIDE

MOX

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Solid	Red, orange or yellow	Odorless
KEEP PEOPLE AWAY. AVOID CONTACT WITH SOLID AND DUST. Wear dust respirator and rubber overclothing (including gloves). Notify local health and pollution control agencies.			
Fire	Not flammable. Will increase the intensity of a fire. POISONOUS GASES MAY BE PRODUCED WHEN HEATED.		
Exposure	CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED OR IF SKIN IS EXPOSED. If inhaled will cause coughing or difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. Irritating to skin and eyes. If swallowed will cause nausea or vomiting. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. 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 CONVULSIONS, do nothing except keep victim warm.		
Water Pollution	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS	4. FIRE HAZARDS	7. SHIPPING INFORMATION
Stop discharge Collection Systems: Dredge	2.1 CG Compatibility Group: Not listed. 2.2 Formula: HgO 2.3 IMO/UN Designation: 6.1/1641 2.4 DOT ID No.: 1641 2.5 CAS Registry No.: 1344-45-2 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification: 52269	4.1 Flash Point: Not flammable, but may intensify fire 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: Fumes from fire may contain poisonous mercury vapor. 4.6 Behavior in Fire: Decomposes at 500°C into mercury and oxygen, which can increase intensity of fire. Solid changes color when hot. 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 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	7.1 Grades of Purity: Red-technical; reagent; purified Yellow-technical; NF; reagent 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
3.1 Personal Protective Equipment: Dust mask; goggles or face shield; protective gloves	3.1 Personal Protective Equipment: Dust mask; goggles or face shield; protective gloves	5. CHEMICAL REACTIVITY	8. HAZARD CLASSIFICATIONS
3.2 Symptoms Following Exposure: Acute systemic poisoning may be fatal within a few minutes; death by uremic poisoning is usually delayed 5-12 days. Acute poisoning has resulted from inhaling dust concentrations of 1.2-8.5 mg/m ³ of air; symptoms include tightness and pain in chest, coughing, and difficulty in breathing. Ingestion causes necrosis, pain, vomiting, and severe purging. Contact with eyes causes ulceration of conjunctiva and cornea. Contact with skin causes irritation and possible dermatitis; systemic poisoning can occur by absorption through skin.	3.2 Symptoms Following Exposure: Acute systemic poisoning may be fatal within a few minutes; death by uremic poisoning is usually delayed 5-12 days. Acute poisoning has resulted from inhaling dust concentrations of 1.2-8.5 mg/m ³ of air; symptoms include tightness and pain in chest, coughing, and difficulty in breathing. Ingestion causes necrosis, pain, vomiting, and severe purging. Contact with eyes causes ulceration of conjunctiva and cornea. Contact with skin causes irritation and possible dermatitis; systemic poisoning can occur by absorption through skin.	5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: Currently not available 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	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: Not listed. 8.7 EPA Pollution Category: Not listed. 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed
3.3 Treatment of Exposure: INHALATION: remove victim to fresh air; get medical attention. INGESTION: alimentary absorption is very rapid; action during first 10-15 min. determines prognosis. Give egg whites, milk, or activated charcoal and induce vomiting; consult physician. EYES: flush with water for at least 15 min. SKIN: wash with soap and water.	3.3 Treatment of Exposure: INHALATION: remove victim to fresh air; get medical attention. INGESTION: alimentary absorption is very rapid; action during first 10-15 min. determines prognosis. Give egg whites, milk, or activated charcoal and induce vomiting; consult physician. EYES: flush with water for at least 15 min. SKIN: wash with soap and water.	6. WATER POLLUTION	9. PHYSICAL & CHEMICAL PROPERTIES
3.4 TLV-TWA: 0.025 mg/m ³ (as mercury)	3.4 TLV-TWA: 0.025 mg/m ³ (as mercury)	6.1 Aquatic Toxicity: 0.29 ppm/48 hr/marine fish/TL _m	9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 216.61 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: 11.1 at 20°C (solid) 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 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available
3.5 TLV-STEL: Not listed.	3.5 TLV-STEL: Not listed.	6.2 Waterfowl Toxicity: Currently not available	
3.6 TLV-Ceiling: Not listed.	3.6 TLV-Ceiling: Not listed.	6.3 Biological Oxygen Demand (BOD): None	
3.7 Toxicity by Ingestion: Grade 4; oral LD ₅₀ = 18 mg/kg (rat)	3.7 Toxicity by Ingestion: Grade 4; oral LD ₅₀ = 18 mg/kg (rat)	6.4 Food Chain Concentration Potential: Many organisms can accumulate mercury from water. Bioconcentrate up to 10,000 fold.	
3.8 Toxicity by Inhalation: Currently not available.	3.8 Toxicity by Inhalation: Currently not available.	6.5 GESAMP Hazard Profile: Bioaccumulation: + Damage to living resources: 4 Human Oral hazard: 3 Human Contact hazard: II Reduction of amenities: XXX	
3.9 Chronic Toxicity: Causes birth defects in rats	3.9 Chronic Toxicity: Causes birth defects in rats		
3.10 Vapor (Gas) Irritant Characteristics: Currently not available	3.10 Vapor (Gas) Irritant Characteristics: Currently not available		
3.11 Liquor or Solid Characteristics: Currently not available	3.11 Liquor or Solid Characteristics: Currently not available		
3.12 Odor Threshold: Odorless	3.12 Odor Threshold: Odorless		
3.13 IDLH Value: Not listed.	3.13 IDLH Value: Not listed.		
3.14 OSHA PEL-TWA: Not listed.	3.14 OSHA PEL-TWA: Not listed.		
3.15 OSHA PEL-STEL: Not listed.	3.15 OSHA PEL-STEL: Not listed.		
3.16 OSHA PEL-Ceiling: 0.1 mg/m ³ (as mercury)	3.16 OSHA PEL-Ceiling: 0.1 mg/m ³ (as mercury)		
3.17 EPA AERG: Not listed	3.17 EPA AERG: Not listed		

NOTES

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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
NOT PERTINENT			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

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
INSOLUBLE			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT