BARIUM PEROXIDE

(CAUTION	ARY RESPO	ONSE INFORMATIO	N	4. FIRE HAZARDS		
Common Synonyms Barium binoxide Barium dioxide Barium superoxide		Solid Light gray to tan Odorless Sinks in water.		Odorless	 4.1 Flash Point: Not flammable but may cause fire on contact with combustibles. 4.2 Flammable Limits in Air: Not pertinent 4.3 Fire Extinguishing Agents: Flood with under drug under a compliance 		
AVOID COI Wear rubbe	ition sources a NTACT WITH or overclothing health and po	and call fire departme SOLID AND DUST. I (including gloves). Ilution control agenci			water, dry powder (e.g. graphite, powdered imestone). 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 4.5 Special Hazards of Combustion Products: Not pertinent		
Fire	Containers I Combat fires Flood discha	fire on contact with c may explode in fire.	or protected location.		 4.6 Behavior in Fire: Can increase intensity of fire. 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 		
Exposure CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED. Irritating to eyes, nose and throat. Move victim to fresh air. If in eyes, hold eyelids open and flush with plenty of water. If breathing is difficult, give oxygen. SOLID POISONOUS IF SWALLOWED.					not available 4.11 Stoichometric 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		
	Will burn ski Remove cor Flush affect IF IN EYES, IF SWALLO or milk.		water	 CHEMICAL REACTIVITY Reactivity with Water: Decomposes slowly. The reaction is not hazardous. Reactivity with Common Materials: Corrodes metal slowly. If mixed with combustible material or finely divided 			
Water Pollution	May be dan Notify local	v concentrations on a gerous if it enters wa health and wildlife off tors of nearby water	icials.	metals, can ignite spontaneously or by friction. 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			
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Dredge			2. CHEMICAL DES 2.1 CG Compatibility Gro 2.2 Formula: BaOa 2.3 IMOUN Designation: 2.4 DOT ID No: 1449 2.5 CAS Registry No: 13 2.6 NAERG Guide No: 14 2.7 Standard Industrial T 52265	up: Not listed. 5.1/1449 04-29-6 11	6. WATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): None 6.4 Food Chain Concentration Potential: None		
chemical sa 3.2 Symptoms Foll Contact wit colic, diarrh may occur i 3.3 Treatment of E particularly water for 11 solution of 1	tefty gogdies; owing Expose h eyes or skin h eyes or skin ti fo compound wi if compound wi if compound wi if compound wi if compound with a be given 1.V. mg/m ³ as barit. Isted. be given 1.V. ti fsted. estion: Currer y: Barium point if att Characct Characcterist id: Odorless id: Odorless	full cover clothing. ure: Inhalation cause causes severe burn teremors, slow, hard intestines, and kidr medical attention. A flush with water. INC sodium sulfate; in a i with caution; treatm with caution; treatm m ty not available soning leristics: Currently not avail ium. as barium.	wed toxic dust respirator; liquid es irritation of mucous membrar s. Ingestion causes excessive pulse, and elevated blood pres ueys; muscular paralysis may fo lert doctor to possibility of bari LATION: remove to fresh air. ESTION: oral administration o severe intoxication, calcium or : ent otherwise is supportive and bt available	ese, throat, and nose. salivation, vomiting, sure; hemorrhages llow. um poisoning, EYES: flush with f an aqueous 10% a magnesium salt	6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 2 Human Contact hazard: (3) Human Contact hazard: 11 Reduction of amenities: XX		

7. SHIPPING INFORMATION
7.1 Grades of Purity: Technical: 91-92.5% high- purity reagent
7.2 Storage Temperature: Ambient
7.3 Inert Atmosphere: No requirement
7.4 Venting: Pressure-vacuum
7.5 IMO Pollution Category: Currently not availab
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: II
8.4 Marine Pollutant: No
8.5 NFPA Hazard Classification:
Category Classification
Health Hazard (Blue) 1
Flammability (Red)0
Instability (Yellow) 0
Special (White) OX
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: 169.4
9.3 Boiling Point at 1 atm: Decomposes
9.4 Freezing Point: 842°F = 450°C = 723°K
9.5 Critical Temperature: Not pertinent
9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 4.96 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: -194 Btu/lb = -108
cal/g = $-4.52 \times 10^5 \text{ J/kg}$ 9.15 Heat of Solution: Not pertinent
9.16 Heat of Polymerization: Not pertinent

9.19 Reid Vapor Pressure: Currently not available

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
	N O T		N O T		N O T		N O T
	P E R T I N E N T		P E R T I N E N T		P E R T I N E N T		P E R T I N E N T

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
32	1.500		N O T P E R T I N E N T		NOT PERTINENT		NOT PERTINENT