BARIUM NITRATE

		ONSE INFORMATION	4. FIRE HAZARDS
Common Synonyms Solid Sinks and mixes w		White Odorless	 4.1 Flash Point: Not flammable (but see 7.2) 4.2 Flammable Limits in Air: Not flammable 4.3 Fire Extinguishing Agents: Not pertinent
Wear gogg Shut off ign	NTACT WITH SOLID AND DUST. les and self-contained breathing a ition sources and call fire departm health and pollution control agence	ent.	 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 4.5 Special Hazards of Combustion Products: Yields toxic gaseous oxides of nitrogen when involved in fire. 4.6 Behavior in Fire: Mixtures with combustible materials are readily ignited
Fire	Not flammable. May cause fire on contact with POISONOUS GASES MAY BE Flood discharge area with wate	and may burn fiercely. Containers may explode. 4.7 Auto Ignition Temperature: Not pertinent 4.8 Electrical Hazards: Not pertinent	
Exposure	CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED. Irritating to eyes, nose and thro: Move victim to fresh air. If ine eyes, hold eyelids open and If breathing is difficult, give oxyg SOLID POISONOUS IF SWALLOWED Irritating to skin and eyes. Remove contaminated clothing :	at. flush with plenty of water. en.	 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 available 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed
	Flush affected areas with plenty IF IN EYES, hold eyelids open a IF SWALLOWED and victim is or milk and have victim induce v	of water. nd flush with plenty of water. SONSCIOUS, have victim drink water omiting. INCONSCIOUS OR HAVING CON-	5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: Contact with combustible material may cause free.
Water Pollution	Dangerous to aquatic life in high May be dangerous if it enters w Notify local health and wildlife of Notify operators of nearby wate	ater intakes. ficials.	 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
Dilute and o Stop discha		2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: Ba(NO ₂) ₂ 2.3 IMO/UN Designation: 5.1/1446 2.4 DOT ID No: 1446 2.5 CAS Registry No: 10022-31-8 2.6 NAERG Guide No:: 141 2.7 Standard Industrial Trade Classification: 52359	6. WATER POLLUTION 6.1 Aquatic Toxicity: 500 ppm/1658 hr/stickle back/average survival/fresh water 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): None 6.4 Food Chain Concentration Potential: None
suitable co 3.2 Symptoms Foll causes exc elevated bi Muscular particularly particularly water for at	veralls. lowing Exposure: Inhalation or cc essive salivation, vomiting, colic, ood pressure. Hemorrhages may aralysis may follow. ixposure: Get medical attention. if compound was swallowed. Nit least 15 min. SKIN: flush with w	AZARDS e shield; dust respirator; rubber gloves and shoes; ontact with eyes or skin causes irritation. Ingestion diarrhea, convulsive tremors, slow, hard pulse, occur in the stomach, intestines, and kidneys. Alert doctor to possiblility of barium poisoning, LATION: remove to fresh air. EYES: flush with ter. INGESTION: oral administration of an aqueous in severe intoxication, calcium or a magnesium salt	6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 0 Human Oral hazard: 2 Human Contact hazard: 1 Reduction of amenities: XX
3.4 TLV-TWA: 0.5 / 3.5 TLV-STEL: Not 3.6 TLV-Ceiling: N. W. 3.7 Toxicity by Ing 3.8 Toxicity by Inh 3.9 Chronic Toxici 3.10 Vapor (Gas) In 3.11 Liquid or Solic 3.12 Odor Thresho 3.13 IDLH Value: 5(mg/m ³ as barium. listed. t listed. estion: Grade 3; oral rat LD ₅₀ = 3 lalation: Currently not available. ty: Barium poisoning ritant Characteristics: Currently not a ld: Odorless) mg/m ³ At: 0.5 mg/m ³ as barium. EL: Not listed.	iot available	

7. SHIPPING INFORMATION 7.1 Grades of Purity: Technical; 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 8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Oxidizer 8.2 49 CFR Class: 5.1 8.3 49 CFR Package Group: || 8.4 Marine Pollutant: Yes 8.5 NFPA Hazard Classification: Classification Category Health Hazard (Blue).... 0 Flammability (Red)..... 0 0 Instability (Yellow)..... 0 0 Special (White)..... OX OX * First column refers to non-fire situation. 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: 261.35 9.3 Boiling Point at 1 atm: Decomposes 9.4 Freezing Point: 1,098°F = 592°C = 865°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 3.24 at 23°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: 36 Btu/lb = 20 cal/g = 0.84 X 10⁵ J/kg 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 22.6 cal/g (est) 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not

available

NOTES

BARIUM NITRATE

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Younds 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
34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84	5.322 5.644 5.966 6.288 6.610 6.933 7.255 7.577 7.899 8.222 8.544 8.866 9.188 9.510 9.833 10.150 10.480 10.800 11.120 11.440 11.120 11.440 11.2700 12.090 12.410 12.730 13.050 13.380		N O T E R T I N E N T		N OT PERTINERTINENT		N O T P E R T I N E N T