SAFETY DATA SHEET

Section 1	Chemical Product and Company Identification	Page E1 of E2
	Aldon221 Rochester Street Avon, NY 14414Corporation(585) 226-6177	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only. Not for drug, food or household use.
Product	BARIUM NITRATE	
Synonyms	Barium Dinitrate / Nitric Acid, Barium Salt	
Section 2	Hazards Identification	
Pictogram Target org. GHS Class Oxidizing s Acute toxic Acute toxic GHS Label H272: May H302: Harm	rd: DANGER s: GHS03 / GHS07 ans: Central nervous system, Kidneys. sification: olid (Category 2) ity, oral (Category 4) ity, inhalation (Category 4) I information: Hazard statement: intensify fire; oxidizer. nful if swallowed. nful if inhaled.	 Precautionary statement: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P220: Keep away from clothing/incompatible/combustible materials. P221: Take any precaution to avoid mixing with combustibles and reducing agents. P261: Avoid breathing dust. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301+P330: IF SWALLOWED: Rinse mouth. P312: Call a POISON CENTER or doctor if you feel unwell. P370+P378: In case of fire: Use water to extinguish. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 3	Composition / Information on Ingredients								
Chemical Name		CAS #	%	EINECS					
Barium nitrate		10022-31-8	100%	233-020-5					
Section 4	First Aid Measures								

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use water. Do not use dry chemicals or foams. CO₂ or Halon[®] may provide limited control.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Although not flammable, substance is a strong oxidizer which releases oxygen on heating, increasing the burning rate of any material.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	Г		
Exposure Limits:	Barium and soluble compounds, as Ba	TWA: 0.5 mg/m ³ (A4)	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	1		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical & Chemical Prop	perties	
 Appearance: Solid. White crystalline powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 592°C (1097°F) Boiling point: Decomposes Flash point: Non flammable 	Evaporation rate (=1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 3.24 @ 23°C Solubility(ies): 8.7 g/100 ml in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Ba(NO ₃) ₂ Molecular weight: 261.35
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Do not heat or rub with organic matter or other oxidizable substance. e.g. sulfur, sulfides, phosphides, hypophosphites, etc.

Incompatible materials: Barium oxides, magnesium and zinc, reducing agents and combustible materials.

Hazardous decomposition products: Nitrogen oxides, barium oxide, barium dust and/or fume.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 355 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause cough, shortness of breath, sore throat.

Ingestion: Ingestion causes excessive salivation, abdominal cramps, abdominal pain, diarrhea, nausea, vomiting, shortness of breath, weakness.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes causes irritation.

Signs and symptoms of exposure: Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: CQ9625000

Section 12 Ecological Information

Toxicity to fish: No data available

Mobility in soil: No data available

Toxicity	/ to da	phnia and	other ac	quatic invertebrates	: Daphnia m	agna (w	ater flea, age	<24 neonate), EC50 = 0.512 mM/24 h	nours

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport Information (US DOT / CANADA TDG)

UN/NA number: UN1446 Shipping na Hazard class: 5.1, (6.1) Packing gro Exceptions: Limited quantity equal to or less th		up: II	Reporta	Reportable Quantity: No 2012 ERG Guide # 141			Marine pollutant: No		
Section 15	Regulatory Information								
A chemical is considered	to be listed if the CAS number for the	anhydrous form i	is on the Inventory list.						
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL			
Barium nitrate		Listed	Not listed	Not listed	Listed	Not listed			
Section 16	Other Information								
	d herein is furnished without warranty								

dent determination contained netrent is furnished without warranty of any kind. Employers should use this information only as a supplement to dute information gainede by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.