### **BARIUM NITRATE**

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### **Product Description**

**Product Name: Recommended Use:** Synonyms: Distributor:

Section 1

**BARIUM NITRATE** Science education applications Barium Dinitrate; Nitric Acid, Barium Salt Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

**Chemical Information: Chemtrec:** 

### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

### DANGER

Section 2



May intensify fire; oxidizer. Harmful if swallowed or if inhaled. Causes serious eye irritation.

### **GHS Classification:**

Oxidizing Solid Category 2, Serious Eye Damage/Eye Irritation Category 2A, Skin Corrosion/Irritation Category 3, Acute Toxicity -Inhalation Vapor Category 4, Acute Toxicity - Oral Category 4

### **Section 3**

### **Composition / Information on Ingredients**

Chemical Name
Barium Nitrate

CAS # 10022-31-8 % 100

### Section 4

Section 5

### **First Aid Measures**

### Emergency and First Aid Procedures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	After contact with skin, wash immediately with plenty of water.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Firefighting Procedures

Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Explosive when mixed with oxidising substances.
Hazardous Combustion Products:	Nitrogen oxides
Section 6	Spill or Leak Procedures

Steps to Take in Case Material Is **Released or Spilled:** 

Avoid the generation of dusts during clean-up. Avoid breathing dust/fume/gas/mist/vapors/spray. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Vacuum or sweep up material and place in a disposal container

### Section 7

### Handling and Storage

Handling:Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep/Store away from<br/>clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing<br/>dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this<br/>product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye<br/>protection/face protection. Keep away from oxidizing materials and strong acids. Keep container tightly closed in<br/>a cool, well-ventilated place. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained<br/>residue may make empty containers hazardous; use caution. Keep away from combustible material. Avoid<br/>contact with skin and eyes. Avoid contact with clothing. After contact with skin, wash immediately with plenty of<br/>water.Storage:Keep container tightly closed in a cool, well-ventilated place.

Storage Code:

Keep container tightly closed in a cool, well-ventilated place. Yellow - Reactive. Store separate and away from incompatible material.

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Section 8	Protection Inf	ormation			
	ACGIH OSHA			PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Barium Nitrate	0.5 mg/m3 TWA (as Ba)	N/A	0.5 mg/m3 TWA (as Ba)	N/A	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Good general room ventilation should be sufficient to control airborne contaminates to safe levels.				
Personal Protective Equipment (PPE): Respiratory Protection:	Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if levels above the exposure limits are possible.				
Respirator Type(s):	NIOSH approved air purifying respirator with dust/mist filter.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	equipment depending upo and replace at regular inte other exposed areas with	on conditions of us ervals. Clean proto mild soap and wa	esistant gloves, an apron ar se. Inspect gloves for chem ective equipment regularly. ater before eating, drinking, as with mild soap and wate	ical break-through Wash hands and and when leaving	

Gloves:

### Section 9

Formula: Ba(NO3)2 Molecular Weight: 261.37 Appearance: Solid Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available Flash Point: No data available Flash Point: No data available Flammable Limits in Air: N/A

### **Physical Data**

Nitrile

at regular intervals. Clean protective equipment regularly.

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 3.24 at 23 °C Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

drinking, and when leaving work. Inspect gloves for chemical break-through and replace

### Section 10

Reactivity: Chemical Stability: Conditions to Avoid:

### **Reactivity Data**

No data available Stable under normal conditions. Exposure to moisture Sparks, open flame, other ignition sources, and elevated temperatures.

		Safety D	ata Sheet				
Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		Acetic anhydride, Acids Nitrogen oxides Will not occur					
Section 11		Toxici	ty Data				
Routes of Entry Symptoms (Acute): Delayed Effects:	N/A None Known No data available						
Acute Toxicity: Chemical Name Barium Nitrate		<b>CAS Number</b> 10022-31-8	<b>Oral LD50</b> Oral LD50 Rat 390 mg/kg Oral LD50 MAMMAL 390 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined		
Carcinogenicity: Chemical Name Barium Nitrate		<b>CAS Number</b> 10022-31-8	IARC Listed	<b>NTP</b> Not listed	OSHA Not listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2 Not listed as a carcinogen by IARC, NTP or OSHA.						
Section 12	Ecological Data						
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data		ble Keep out of waterwa	ays.			
<b>Chemical Name</b> N/A		10022-31-8	Eco Toxicity				
Section 13		Disp	osal Information	on			
Disposal Methods: Waste Disposal Code(		Dispose in accordance v contact a permitted wast Not Determined			gulations. Always		
Section 14		Trans	sport Informati	on			
<b>Ground - DOT Proper</b> UN1446, Barium Nitrate	•••		<b>Air - IATA Proper S</b> i UN number: 1446 Cl shipping name: Bariu	ass: 5.1 (6.1) Packing	g group: II Proper		
Section 15		Regul	atory Informat	ion			
TSCA Status: All components in this product are on the TSCA Inventory.							

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	10022-31-8	No	No	No	No	No

### Section 16 **Additional Information** Revised: 09/03/2014 Replaces: 09/03/2014 Printed: 09-11-2014 The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet. Glossary ACGIH American Conference of Governmental NTP National Toxicology Program Industrial Hygienists OSHA Occupational Safety and Health Administration Chemical Abstract Service Number CAS PEL Permissible Exposure Limit Comprehensive Environmental Response, CERCLA ppm Parts per million Resource Conservation and Recovery Act Compensation, and Liability Act RCRA DOT U.S. Department of Transportation Superfund Amendments and Reauthorization Act SARA International Agency for Research on Cancer Threshold Limit Value IARC TLV Not Available **Toxic Substances Control Act** N/A TSCA

IDLH

Immediately dangerous to life and health