

# MATERIAL SAFETY DATA SHEET

Barium Nitrate

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Barium Nitrate  
Product Code: B0690  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 5/28/2013  
Print Date: 5/28/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	3
Flammability:	0
Reactivity:	3

Hazard Rating:  
Least Slight Moderate High Extreme  
0 1 2 3 4  
NA=Not Applicable NE=Not Established

## SECTION 2 HAZARD IDENTIFICATION

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Barium Nitrate	CAS# 10022-31-8	100%	W/W	OSHA PEL 0.5 mg/mf as Ba

## SECTION 4 FIRST AID MEASURES

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

FIRST AID: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, Carbon dioxide, dry chemical, powder, foam.  
Fire / Explosion Hazards: Negligible fire hazard when exposed to heat or flame. Oxidizer, if in contact with combustible material may result in ignition.

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Fire Fighting Procedure: Move containers from fire area if possible. Cool containers exposed to flame with water from side until well after fire is out .

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Dispose of in a manner consistent with federal, state and local regulations.

**SECTION 7 HANDLING AND STORAGE**

Do not touch spilled material. Clean with shovel, place into cool dry container and cover. Keep unnecessary people away.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	1098 Deg F	Percent Volatile by Volume:	Information not available.
Boiling Point:	Decomposes	Evaporation Rate	Not applicable
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	8.7%	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	White , odorless crystals	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not flammable		
Specific Gravity:	3.24		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	Under normal temperatures and pressures.
Materials to Avoid:	Metal powders, combustible materials, and reducing agents.
Hazardous Decomposition Products:	Toxic oxides may be released.
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

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**SECTION 11 Toxicological Information**

**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

**SECTION 14 Transport Information**

DOT Classification: Barium Nitrate, 5.1,(6.1), UN1446, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

**SECTION 16 Additional Information**

Conditions aggravated/ target organs: Persons with pre-existing skin, eye, and respiratory disorders will be more susceptible. If ingested induce vomiting. May cause irritation of the respiratory tract, with sore throat coughing and labored breathing. Ingestion may cause nausea, vomiting, and diarrhea with or without abdominal colic. Excessive salivation. Dryness of the mouth or throat.

Flammability

Health

Reactivity

Revisions

NFPA

0.1

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