

# MATERIAL SAFETY DATA SHEET

## Barium Chlorate

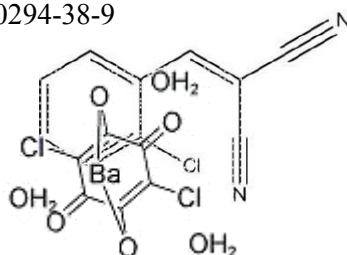


### SECTION 1: Identification of the substance/mixture and of the company

#### 1.1 Product identifiers

Product name : Barium Chlorate  
Synonym : Chloric Acid Barium Salt  
CAS-No . : 10294-38-9

Chemical structure :



Molecular weight : 304.22900

Appearance : White solid

#### 1.2 Details of the supplier of the material safety data sheet

##### 1. Product and Company

Company	SHAANXI DAYU CHEMICAL CO., LTD.
Address	Dianzisan Road, Yanta District, Xi'an 710065, Shaanxi Province, China
Telephone	+86-29-88272352
Email	info@dayuchemical.com
Website	www.hidayuchemical.com

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## 2. Hazards

GHS Classification      Oxidizing solids (Category 1), H271  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Acute aquatic toxicity (Category 2), H401  
Chronic aquatic toxicity (Category 2), H411

### GHS Label elements

Pictogram(s)



Signal word      **DANGER**

Hazard statement(s)

H271    May cause fire or explosion; strong oxidizer.  
H302 + H332    Harmful if swallowed or if inhaled  
H411    Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210    Keep away from heat.  
P220    Keep/Store away from clothing/ combustible materials.  
P221    Take any precaution to avoid mixing with combustibles.  
P261    Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264    Wash skin thoroughly after handling.  
P270    Do not eat, drink or smoke when using this product.  
P271    Use only outdoors or in a well-ventilated area.  
P273    Avoid release to the environment.  
P280    Wear protective gloves/ eye protection/ face protection.  
P283    Wear fire/ flame resistant/ retardant clothing.  
P301 + P312 + P330    IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P304 + P340 + P312    IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P306 + P360    IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P370 + P378    In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P371 + P380 + P375    In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  
P391    Collect spillage.  
P501    Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None.

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### 3. First Aid

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

### 4. Fire Data

Flammability: Non-Flammable

Flash Point: Not Applicable

Auto Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Water spray

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire/Explosion Hazards: Emits toxic fumes under fire conditions.

### 5. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water.

Collect wash water for approved disposal. Keep from entering water or ground water.

### 6. Handling And Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly sealed container

Special Sensitivity: None.

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

### 7. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

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## 8. Physical And Chemical Properties

Physical Form: Crystals

Color: White

Odor: Odorless

Molecular Weight: 304.22900

Boiling Point: Not Applicable

Melting/Freezing Point: -H<sub>2</sub>O @120oC, Anhydrous material decomposes @414oC

Solubility In Water: 27.4 g/100mL @25oC

Specific Gravity: 3.18

## 9. Stability And Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong acids.

Instable Conditions: Excessive temperatures (see incompatibilities).

Decomposition Temperature: -H<sub>2</sub>O @120°C, Anhydrous material decomposes @414°C

Decomposition Products: Oxygen, hydrogen chloride gas, oxides of barium.

## 10. Toxicological Information

RTECS Number: FN9770000

Routes Of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: No data available.

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolonged exposure to this chemical is not known to aggravate medical conditions.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membranes. Irritation to the eyes will cause watering and redness.

Reddening, scaling and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

## 11. Ecological Information

Ecotoxicity: Not available at this time.

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## 12. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

## 13. Transportation Information

Proper Shipping Name: Barium Chlorate, Solid  
UN Number: 1445  
Class: 5.1 (6.1)  
P.G.: II  
Label Code: 5.1 (6.1)

## 14. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: This product may be subject to reporting. (Barium content 52.55%)

## 15. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SHAANXI DAYU CHEMICAL CO., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product. Please see additional terms and conditions for reference.