

产品规格

PRODUCT SPECIFICATION



产品名称 <b>Product Name:</b>	Barium Chloride 99%, Dihydrate, Tech Grade	<b>CAS:</b>	10361-37-2	日期 <b>Invoice Date:</b>	Feb.20, 2019
摩尔质量 <b>Molar Mass:</b>	208.23 g/mol	<b>HS Code:</b>	2827 39 85	发票号码 <b>Invoice No:</b>	190220004442
化学式 <b>Chemical Formula:</b>	BaCl <sub>2</sub> ·2H <sub>2</sub> O			批号 <b>Lot No:</b>	3703W6019004

属性 Property Item	标量单位 Scalar Unit	数量 Result Range	实际结果 Actual Result
BaCl <sub>2</sub> ·2H <sub>2</sub> O, %		≥99.0	99.23
Fe, %		≤0.003	0.002
Ca, %		≤0.40	0.37
S, %		≤0.003	0.001
Sr, %		≤0.15	0.01
WATER INSOLUBLE		≤0.05	0.05
APPEARANCE		WHITE CRYSTALLINE POWDER	WHITE CRYSTALLINE POWDER

凯达颐盛有限公司  
 KAIDA YISHENG CO.,LTD.

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## MSDS FOR BARIUM CHLORIDE

### 1. Product Identification

Synonyms: Barium chloride dihydrate

CAS No.: 10326-27-9

Molecular Weight: 244

Chemical Formula:  $BaCl_2 \cdot 2H_2O$

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
.....	.....	.....	.....
Barium Chloride dihydrate	10326-27-9	≥99.0	Yes

### 3. Classification, labelling, packaging and Hazards Identification

Classification: 6.1

Labelling: as the picture below



Packaging: 25kg/500 kg /1000kg bag. The bag is plastic woven bag with inner PE film.

Emergency Overview

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**DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS HEART, RESPIRATORY SYSTEM, AND CENTRAL NERVOUS SYSTEM.**

SAF-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

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Health Rating: 3-Severe (Poison)

Flammability Rating: 0-None

Reactivity Rating: 1-Slight

Contact Rating: 2-Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Blue (Health)

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Potential Health Effects

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**Inhalation:**

Irritates the respiratory tract. May produce sore throat, coughing and labored breathing. Other symptoms may parallel ingestion.

**Ingestion:**

Toxic! May cause severe gastroenteritis, including abdominal pain, vomiting and diarrhea. May cause tremors, faintness, paralysis of arms and legs, and slow or irregular heartbeat. Severe cases may produce collapse and death on respiratory failure. Estimated lethal dose in humans: 1 gram.

**Skin Contact:**

May cause irritation with redness and pain.

**Eye Contact:**

May cause irritation, redness, pain, or blurred vision.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

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#### 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:**

Get medical attention immediately. Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. After vomiting, a mixture of 1 tablespoon of sodium or magnesium sulfate (Epsom salts) dissolved in 8 oz of water to drink maybe indicated to precipitate the barium as nontoxic and insoluble barium sulfate.

**Skin Contact:**

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

**Note to Physician:**

Monitor patients with significant ingestion for respiratory, cardiovascular, and blood pressure status. Watch for cardiac arrhythmias, respiratory failure due to flaccid paralysis of respiratory muscles, pulmonary edema, vocal cord paralysis, severe hypertension, and late effect kidney failure. Acute barium poisoning results in hypokalemia. The administration of fluids containing dilute concentrations of potassium salts may be indicated.

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#### 5. Fire Fighting Measures

**Fire:**

Not considered to be a fire hazard.

**Explosion:**

Not considered to be an explosion hazard.

**Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive mode.

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**6. Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

**Spills:** Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

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**7. Handling and Storage**

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warning and precautions listed for the product.

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**8. Exposure Controls/Personal Protection****Airborne Exposure Limits:**

For Soluble Barium Compounds:

**OSHA Permissible Exposure Limit (PEL):**

0.5 mg (Ba)/m<sup>3</sup>

**ACGIH Threshold Limit Value(TLV):**

0.5 mg(Ba)/m<sup>3</sup> A4-not classifiable as a human carcinogen

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate.

to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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**9. Physical and Chemical Properties**

**Appearance:** White solid.

**Odor:** Odorless.

**Solubility:** 31g/100g water @ 0C(32F)

**Specific Gravity:** 3.86 @ 24C(75F)

**pH:** No information found.

**% Volatiles by volume @ 21C(70F):** 0

**Boiling Point:** 1560C (2840F)

**Melting Point:** 965C (1765F)

**Vapor Density (Air=1):** No information found.

**Evaporation Rate (BuAc=1):** No information found.

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**10. Stability and Reactivity**

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

Oxides of the contained metal and halogen, possibly also free, or ionic halogen.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Bromine trifluoride; 2-furan percarboxylic acid.

**Conditions to Avoid:**

Incompatibles.

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**11. Toxicological Information**

**Barium chloride: Oral rat LD<sub>50</sub>:** 118mg/kg.

Investigated as a tumorigen (dihydrate).

.....\Cancer Lists\.....

.....NTP Carcinogen.....

Ingredient	Known	Anticipated	IARC Category
.....	.....	.....	.....
Barium Chloride(10326-27-9)	No	No	None

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**12. Ecological Information**

**Environmental Fate:**

This material is expected to significantly bioaccumulate.

**Environmental Toxicity:**

No information found.

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### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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### 14. Transport Information

#### Domestic (Land, D.O.T.)

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**Proper Shipping Name:** BARIUM COMPOUND, N.O.S.(BARIUM CHLORIDE)  
**Hazard Class:**6.1  
**UN/NA:** UN1564  
**Packing Group:** III  
**Marine Pollutant:** No

#### IMDG

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**Proper Shipping Name:** BARIUM COMPOUND, N.O.S.(BARIUM CHLORIDE)  
**Hazard Class:** 6.1  
**UN/NA:** UN1564  
**Packing Group:** III  
**Marine Pollutant:** No  
**EmS No.:** F-A, S-A

#### IATA

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**Proper Shipping Name:** BARIUM COMPOUND, N.O.S.(BARIUM CHLORIDE)  
**Hazard Class:**6.1  
**UN/NA:** UN1564  
**Packing Group:** III  
**Marine Pollutant:** No

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### 15. Regulatory Information

**Regulations information:** < hazardous chemical materials safety management regulations > (state council decree 591), according to the safety of hazardous chemicals use, production, storage, transportation and management are the corresponding provisions; < dangerous commodity name list > (GB12268-2005) will be the substance as a paragraph 6.1 of poison product.

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### 16. Other Information

**NFPA Ratings:**  
**Health:**3  
**Flammability:**0

公司  
LTC

**Reactivity:0**

**Label Hazard Warning:**

DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS HEART, RESPIRATORY SYSTEM, AND CENTRAL NERVOUS SYSTEM.

**Label Precautions:**

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

**Label First Aid:**

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. In all cases get medical attention immediately.

**Revision Information:**

25-Mar.-2013



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