

# Material Safety Data Sheet (MSDS)

## Barium Sulphate

### SECTION 1: Identification

**1.1 Product identifier:** Barium sulphate

**1.2 Other means of identification**

**Other names:** Barium sulfate,natural; Barite; Barytes; EINECS 236-664-5

**1.3 Relevant identified uses of the substance and use advised against**

**Identified uses:** Pharmaceutical application  
Ink  
Paint & Powder coating  
Plastic Masterbatches  
Elevator counterweight block  
Drilling fluid weighting agent  
Other application

**Uses advised against:** none

**1.4 Details of the supplier**

**Company:** Majiang JGL Chemicals Co., Ltd.

**Address:**

Office add: 18F, Longquan Bldg, Xiahequn Rd, Yunyan District, Guiyang, Guizhou, China 550001

Factory add: Railway Station, Gudong Village, Gudong Town, Majiang, Qiandongnan, Guizhou, China 557601

**Tel:** +86-851-86704339 86829166

**Email:** yuensons@yahoo.com

**1.5 Emergency phone number**

**Emergency phone number:** +86 13639050399

**Service hours:** Monday to Friday, 9:00am-5:00pm

### Section 2: Hazard Identification

**2.1 Classification of the substance or mixture**

Not classified.

**2.2 GHS label elements, including precautionary statements**

**Pictogram(s):** No symbol.

**Signal word:** No signal word

**Hazard statement(s):** none

**Precautionary statement(s)**

**Prevention:** none

**Response:** none

**Storage:** none

**Disposal:** none

### 2.3 Other hazards which do not result in classification

No data available

## Section 3: Composition/Information on Ingredients

### 3.1 Substance

Chemical name	Common names and synonyms	CAS number	EC number	Content %
Barite (BaSO <sub>4</sub> )	Barite (BaSO <sub>4</sub> )	7727-43-7	236-664-5	>92%

## Section 4: First Aid Measures

### 4.1 Description of necessary first aid measures

#### If inhaled

Fresh air, rest.

#### Following skin contact

Remove contaminated clothes. Rinse skin with plenty of water or shower.

#### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### Following ingestion

Rinse mouth.

### 4.2 Most important symptoms and effects, both acute and delayed

The following symptoms and effects may be observed due to the particulate nature of the material.

**Inhalation:** May cause irritation to the respiratory tract as a particulate nuisance.

**Ingestion:** Choking may occur if large quantities are swallowed.

**Skin:** Drying of the skin can occur.

**Eyes:** May cause eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Immediate first aid:** Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand-valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR as necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention.

Barium and Related Compounds

## Section 5: Fire-fighting Measures

### 5.1 Suitable extinguishing media

Extinguishing agents

Product itself is non-combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

Excerpt from ERG Guide 154 [Substances - Toxic and/or Corrosive (Non-Combustible)]:

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.). Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated. For electric vehicles or equipment, ERG Guide 147 (lithium ion batteries) or ERG Guide 138 (sodium batteries) should also be consulted. (ERG, 2016)

### 5.3 Advice for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary

### 5.4 Further Information

None

## Section 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid airborne dust generation. If the generation of dust is likely, personal protective equipment should be worn in compliance with national legislation.

### 6.2 Environmental precautions

To absorb the leakage and avoid polluting the environment. Prevent spills from entering sewers, surface water and groundwater.

### 6.3 Methods and material for containment and cleaning up

**Small leakage:** Collect the leaking liquid in an airtight container if possible. Absorb with sand, activated carbon or other inert material and transfer to a safe place. No flushing into the sewer.

**Large leakage:** build embankments or dig holes for shelter. Seal off the drain. Cover with foam to inhibit evaporation. Transfer to tank truck or special collector with explosion-proof pump for recycling or transport to waste disposal site for disposal.

### 6.4 Reference to other sections

For disposal see section 13

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

Avoid airborne dust generation.

Provide appropriate exhaust ventilation at places where airborne dust is generated.

In case of insufficient ventilation, wear suitable respiratory protective equipment.

Handle packaged products carefully to prevent accidental bursting

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures/Precautions:

Keep the product dry and in closed containers.

### Incompatible products:

Strong reducing agents.

## Section 8: Exposure Controls and Personal Protection

### 8.1 Control parameters

Occupational Exposure limit values

Component	Barite (BaSO <sub>4</sub> )
CAS No.	7727-43-7
	Recommended Exposure Limit: 10 Hour Time-Weighted Average: 10 mg/cu m, total particulate. Recommended Exposure Limit: 10 Hour Time-Weighted average: 5 mg/cu m, respirable fraction.

### 8.2 Exposure controls

#### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side-shields. Wear eye/face protection.

**Hand Protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

**Body Protection** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** Wear respiratory protection.

**Skin&body protection** Wear impervious clothing and boots in case of repeated or prolonged treatment.

**Hygiene Measures** Do not eat, drink or smoke when handling. Observe standard industrial hygiene practice.

**Environmental Exposure Controls** No special exposure controls required.

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Powder, Dust
Colour:	White
Mol Weight (At Wt):	233.39
Odour/Taste:	Odourless or No Characteristic Odour
pH Value:	6-9
Freezing/Melting Point (°C):	Not Applicable
Initial Boiling Point (°C):	Not Applicable
Flash Point (°C):	Not Applicable
Evaporation Rate (Ether = 1):	Not Applicable
Vapour Pressure (mmHg):	Not Applicable
Density:	4.2-4.4g/cm <sup>3</sup>
Solubility in Water:	< 10 <sub>-2</sub> g/l
Flammability:	Not Applicable
Explosive Limits:	May Explode If Heated with Strong oxidising agents
Auto Ignition Temperature:	Not Applicable
Decomposition Temperature:	1580°C

### 9.2 Other information

No other information.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

Inert, not reactive.

### 10.2 Chemical stability

Stable under normal use conditions.

### 10.3 Possibility of hazardous reactions

May react explosively when heated with strong reducing agents such as powdered aluminium, phosphorus, potassium metal etc.

### 10.4 Conditions to avoid

Thermal decomposition >1300°C

### 10.5 Incompatible materials

Strong reducing agents

### 10.6 Hazardous decomposition products

Sulphur oxides (SO<sub>x</sub>), BaO.

## Section 11: Toxicological Information

### Acute toxicity

Oral: LD50 Rat oral approx 307,000 mg/kg bw

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation : no data available

Serious eye damage/irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

STOT-single exposure: no data available

STOT-repeated exposure: no data available

Aspiration hazard: no data available

## Section 12: Ecological Information

### 12.1 Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: EC50; Species: Daphnia magna (Water Flea);  
Conditions: freshwater, static, 11.5-14.5 deg C, pH 7.2-7.8, dissolved oxygen 5.2-6.5 mg/L;  
Concentration: 52820 ug/L (43200-68140 ug/L) for 24 hr; Effect: intoxication, immobilization

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Other adverse effects

no data available

## Section 13: Disposal considerations

### 13.1 Disposal methods

#### Waste chemicals:

Recycle as much as possible.

If recycling is not possible, incineration is used for disposal.

This product shall not be disposed of by discharging into the sewer.

**Contaminated packaging:**

Return the container to the manufacturer or dispose of it in accordance with national and local regulations.

**Precautions for abandonment:**

Refer to the relevant national and local regulations before disposal.

**Section 14: Transport Information**

**14.1 UN number**

Not relevant.

**14.2 UN proper shipping name**

Not relevant

**14.3 Transport hazard class(es)**

ADR: Not classified.

IMDG: Not classified.

ICAO/IATA: Not classified.

RID: Not classified.

**14.4 Packing group**

Not relevant.

**14.5 Environmental hazards**

Not relevant

**14.6 Special precautions for user**

No special precautions.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant.

**Section 15: Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name	Common names and synonyms	CAS number	EC number
Barite (BaSO <sub>4</sub> )	Barite (BaSO <sub>4</sub> )	7727-43-7	236-664-5
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.
Korea Existing Chemicals List (KECL)			Listed.

## Section 16: Other Information

**Document Status:** Full

**Creation Date:** 25/08/2021

### References

- 【1】 IPCS - The International Chemical Safety Cards (ICSC),  
website: <http://www.ilo.org/dyn/icsc/showcard.home>
- 【2】 HSDB - Hazardous Substances Data Bank,  
website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- 【3】 IARC - International Agency for Research on Cancer,  
website: <http://www.iarc.fr/>
- 【4】 ChemPortal - The Global Portal to Information on Chemical Substances by OECD,  
website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- 【5】 CAMEO Chemicals,  
website: <http://cameochemicals.noaa.gov/search/simple>
- 【6】 ChemIDplus,  
website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- 【7】 ERG - Emergency Response Guidebook by U.S. Department of Transportation,  
website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- 【8】 Germany GESTIS-database on hazard substance,  
website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- 【9】 ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

**Disclaimer:** *This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements.*

*We as supplier shall not be held liable for any damage resulting from handling or from contacting with the above product. Dated: 08/2021*