

Material Safety Data Sheet (MSDS)

1. Product and company information

Product name: barium sulfate

Manufacturer: Gemme Chemical Co., Ltd., Xinji City, Hebei Province

Address: 3131 Chemical Zone Four, Yuhong Street, Xinji City, Hebei

Tel: 0086 - 311 - 8322 0587

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2. Composition/Information on Ingredients

Chemical name: barium sulfate; concentration: 94-100%

3. Hazards Identification

Routes of entry: respiration, eyes, skin contact

Carcinogenicity: none

Target organs: eyes, lungs

Health impact on eye: Direct contact of the eyes with its dust might cause mechanical irritation.

Health impact on skin: Direct contact of the skin with its dust might cause slight skin dryness and slight irritation.

Health impact on digestive system: Inhalation of fine bentonite dust might cause mechanical irritation to the nose and throat.

4. First-aid Measures

Eyes: Flush the eyes with plenty of water or 0.6% saline solution. If irritation or reddish swelling persists, see a doctor.

Skin: An ordinary emollient may eliminate dryness. If irritation or reddish swelling persists, see a doctor. In case of a bruise, clean the wound with dilute suds.

Digestive system: Since this material is not absorbed in the digestive system, it is thought as nontoxic to the body.

Respiratory system: If this occurs, move to fresh air immediately. In case of stop of respiration, take an artificial respiration and send the patient to the hospital immediately.

Keep warm and have enough rest.

Emergency eye washing: If employees are likely to be exposed to high concentrations of air-borne dust, the employer shall provide a water source nearby to provide against accidents.



5. Fire Fighting Measures

Extinguishing medium: A nonflammable medium should be used. The medium selected should not react with the other components of the product.

Warning on special production hazards: Avoid the generation of dust

Fire fighting protection equipment: no special requirement

6. Accidental Release Measures

Overflow process: no special measure needed

7. Handling and Storage

Handling: This product should be stored in a sealed container to prevent the diffusion of dust in the air.

Storage: This product should be stored in the original container away from incompatible substances, and kept dry, cool and ventilated with protective measures provided.

8. Exposure Controls/Personal Protection

Engineering controls: Preferably engineering measures are taken to protect from and control exposure; if this is not ideal, personal protective measures should be taken.

Respiratory protection: Use of a special gauze mask depends on the dust concentration of the workshop, which shall not exceed the normal working range of the mask.

Hand protection: Protective gloves are usually not necessary. However, if there is a need, they can be used to prevent skin drying and irritation.

Eye protection: dustproof goggles

Body protection: common working clothes

Emergency eye washing: If employees are likely to be exposed to high concentrations of air-borne dust, the employer shall provide a water source nearby to provide against accidents.

9. Physical and Chemical Properties

Water solubility: insoluble

Appearance and scent: light off-white powder; scentless

10. Stability and Reactivity

Stability: stable at normal pressures

Incompatibility: none

Decomposition/byproducts: carbon dioxide, carbon monoxide

Hazardous polymerization reaction: There has been no report on hazardous polymerization reaction at normal pressures and temperatures.

11. Toxicological Information

Acute toxicity: data on carcinogenic tumor (RTECS); data on induction of organic mutation (RTECS)

Chronic toxicity / carcinogenicity: none

Genic toxicity: none

Genotoxicity: none

12. Ecological Information

Migration fluidity: This product is insoluble in water

Durability and decomposability: no relevant study available

Biological accumulation: no relevant study available

Eco-toxicity: no relevant study available

13. Disposal Considerations

Product: to be disposed of in accordance with applicable local and State regulations

Container: to be disposed of carefully

14. Transport Information

The Ministry of Communications of the People's Republic of China has not listed this product as a hazardous article.

15. Regulatory Information

Whether listed in Toxic Substances Control Act (TSCA): Yes Allowable concentration 1% or higher (0.1%), thought as carcinogenic National Paints and Coatings Association (NPCA): health hazard index—1, slight; inflammable hazard index—0, minimum; reactivity hazard index—0, minimum; personal protection index—E, glasses, gloves and dust respirator

16. Other Information

The above information applies to Gemme Chemical Co., Ltd. These data and information are correct. However, Gemme Chemical Co., Ltd. makes no warranty, representation or implication as to the accuracy and completeness of the above information.

Gemme Chemical Company Limited

