

Revision number: 1  
Revision date: 31/10/2020

**1. IDENTIFICATION**

**Product name:** Barium Stearate  
**Product use:** Co-stabilizer and lubrication for production of PVC stabilizer.  
**Company:**

Dongguan Baoxu Chemical Technology.,Ltd.  
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**Emergency telephone number:** 86-769-22821082

**2. HAZARD(S) IDENTIFICATION**

**OSHA Haz Com: CFR 1910.1200:** Acute Toxicity - Oral [Category 4]  
Acute Toxicity - Inhalation [Category 4]

**Signal word:** Warning!

**Hazard Statement(s):** Harmful if swallowed  
Harmful if inhaled

**Pictogram(s) or Symbol(s):**



**Precautionary Statement(s):**

**[Prevention]**

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Avoid breathing dusts or mists. Use only outdoors or in a well-ventilated area.

**[Response]**

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

**[Storage]**

None

**[Disposal]**

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/Mixture:** Substance  
**Components:** Barium Stearate  
**CAS Number:** 6865-35-6  
**Molecular Weight:** 704.28  
**Chemical Formula:** C<sub>36</sub>H<sub>70</sub>BaO<sub>4</sub>  
**Synonyms:** Stearic Acid Barium Salt

#### 4. FIRST-AID MEASURES

<b>Inhalation:</b>	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Skin contact:</b>	Call a poison center or doctor if you feel unwell. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Eye contact:</b>	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. If eye irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
<b>Ingestion:</b>	Harmful if swallowed. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### Symptoms/effects:

<b>Acute:</b>	No data available
<b>Delayed:</b>	No data available

**Immediate medical attention:** WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is harmful. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.

#### Specific hazards arising from the chemical

**Hazardous combustion products:** These products include: Carbon oxides Metallic oxides  
**Other specific hazards:** Closed containers may explode from heat of a fire.

#### **Special precautions for fire-fighters:**

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

#### **Special protective equipment for fire-fighters:**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
<b>Personal protective equipment:</b>	Safety glasses. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
<b>Emergency procedures:</b>	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

#### **Methods and materials for containment and cleaning up:**

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

#### **Environmental precautions:**

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry and closed. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition. If filling is needed, the flow rate should be controlled, and there is a grounding device to prevent the accumulation of static electricity. Equipped with the appropriate variety and quantity of fire fighting equipment and leakage emergency treatment equipment.
<b>Conditions for safe storage:</b>	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Empty containers may retain harmful substances.
<b>Storage incompatibilities:</b>	Store away from oxidizing agents, strong acid, strong base, food chemicals. Store in a cool, ventilated warehouse. The storage temperature should not exceed 37°C. Lightning protection equipment must be installed in the warehouse. The exhaust air system shall be provided with a grounding device for conducting and removing static electricity. Use explosion-proof ventilation systems and equipment. Do not use spark-prone equipment and tools. The storage area shall be equipped with leakage emergency treatment equipment and appropriate containment materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure limits:</b>	No data available
<b>Appropriate engineering controls:</b>	Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

### Personal protective equipment

<b>Respiratory protection:</b>	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
<b>Hand protection:</b>	Wear protective gloves.
<b>Eye protection:</b>	Safety glasses.
<b>Skin and body protection:</b>	Lab coat.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state (20°C):</b>	Solid		
<b>Form:</b>	Crystal - Powder		
<b>Color:</b>	White - Almost white		
<b>Odor:</b>	Odorless		
<b>Odor threshold:</b>	No data available		
<b>Melting point:</b>	≥200°C	<b>pH:</b>	No data available
<b>Boiling point/range:</b>	No data available	<b>Vapor pressure:</b>	No data available
<b>Decomposition temperature:</b>	No data available	<b>Vapor density:</b>	No data available
<b>Relative density:</b>	No data available	<b>Dynamic Viscosity:</b>	No data available
<b>Kinematic Viscosity:</b>	No data available		
<b>Partition coefficient: n-octanol/water (log P<sub>ow</sub>)</b>	No data available	<b>Evaporation rate: (Butyl Acetate = 1)</b>	No data available
<b>Flash point:</b>	No data available	<b>Autoignition temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available	<b>Flammability or explosive limits:</b>	
		<b>Lower:</b>	No data available
		<b>Upper:</b>	No data available
<b>Solubility(ies):</b>	Insoluble in water, soluble in benzene, toluene and other non- polar solvents, soluble in nitric acid, acetic acid.		

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Not Available.
<b>Chemical Stability:</b>	Stable under recommended storage conditions. (See Section 7)
<b>Possibility of Hazardous Reactions:</b>	No hazardous reactivity has been reported.
<b>Conditions to avoid:</b>	Avoid excessive heat and light.
<b>Incompatible materials:</b>	Oxidizing agents, strong acid, strong base
<b>Hazardous Decomposition Products:</b>	No data available

## 11. TOXICOLOGICAL INFORMATION

RTECS Number: W1284000

**Acute Toxicity:**  
ipr-mus LD50:450 mg/kg

ori-rat LC50: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

**IARC:** No data available

**NTP:** No data available

**OSHA:** No data available

**Reproductive toxicity:**  
No data available

**Routes of Exposure:** Inhalation, Eye contact, Ingestion.

**Symptoms related to exposure:**  
Overexposure may result in serious illness or death.

**Potential Health Effects:**  
No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested.

**Target organ(s):** No data available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Fish:** No data available  
**Crustacea:** No data available  
**Algae:** No data available

**Persistence and degradability:** No data available  
**Bioaccumulative potential (BCF):** No data available  
**Mobility in soil:** No data available  
**Partition coefficient:  
n-octanol/water (log P<sub>ow</sub>):** No data available  
**Soil adsorption (K<sub>oc</sub>):** No data available  
**Henry's Law:  
constant (PaM<sup>3</sup>/mol):** No data available

## 13. DISPOSAL CONSIDERATIONS

**Disposal of product:** Should consider to recycle first, can consider to entrust to have qualification unit to deal with next.  
**Disposal of container:** Entrust qualified units for disposal.  
**Other considerations:** Observe relevant national and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

**DOT (US)** Non-hazardous for transportation.

**IATA** Non-hazardous for transportation.

**IMDG** Non-hazardous for transportation.

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

### US Federal Regulations

#### CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed  
SARA 302: Not Listed

### State Regulations

#### State Right-to-Know

Massachusetts Not Listed  
New Jersey Not Listed  
Pennsylvania Not Listed  
California Proposition 65: Not Listed

### Other Information

#### NFPA Rating:

Health: 1  
Flammability: 0  
Instability: 0

#### HMIS Classification:

Health: 1  
Flammability: 0  
Physical: 0

### International Inventories

WHMIS hazard class: D2A: Materials causing other toxic effects. (Very Toxic)  
EC-No: 229-966-3

## 16. OTHER INFORMATION

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BELIKE Chemical are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with national and local regulations.