# **OTTO CHEMIE PVT LTD**

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-----ISO 9001: 2015-----

# MATERIAL SAFETY DATA SHEET

# 1 Identification

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1.1GHS Product identifier Barium sulphate, GR 98%+ Code: B 1367

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| 1.20ther means of identification | ation  |
|----------------------------------|--|
| Product number                   | -  |
| Other names                      | Barium sulphate  |
| 1.3Recommended use of th         | e chemical and restrictions on use                             |
| Identified uses                  | For industry use only. Adhesives and sealant                   |
|                                  | chemicals.Fillers.Paint additives and coating additives not    |
|                                  | described by other categories, Pigments, Plating agents and    |
|                                  | surface treating agents. Processing aids, not otherwise listed |
| Uses advised against             | no data available  |
|                                  |  |
| 1.4Supplier's details            | MIMIM Cuide Cham COM   |
| Company                          | WWW.GuideChem.COM  |
| Address                          | 8F, Block C, No.3 Building, Zijin Plaza, No.701, Gudun Road,   |
|                                  | Hangzhou, Zhejiang 310030, China                               |
| Telephone                        | +86-571-89739798   |
| Fax                              | 86(21)54365166   |
| 1.5Emergency phone numb          | er 🖉   |
| Emergency phone number           | +86-571-89739798   |
| Service hours                    | Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8      |
|                                  | hours).  |
|                                  |  |
| 2.Hazard identification          |  |

#### 2.1 Classification of the substance or mixture Not classified. 2.2GHS label elements, including precautionary statements No symbol. Pictogram(s) Signal word No signal word. Hazard statement(s) none Precautionary statement(s) Prevention none Response none Storage none Disposal none

2.3Other hazards which do not result in classification none

# 3.Composition/information on ingredients

| 3.1Substances |  |
|---------------|--|
|---------------|--|

| Chemical name  | Common names and synonyms | CAS number | EC number | Concentration |
|----------------|---------------------------|------------|-----------|---------------|
| Barium sulfate | Barium sulfate            | 7727-43-7  | none      | 100%          |

#### 4.First-aid measures

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest.

In case of skin contact

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

In case of eye contact

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

Rinse mouth.

4.2Most important symptoms/effects, acute and delayed

Exposure Routes: inhalation, skin and/or eye contact Symptoms: Irritation eyes, nose, upper respiratory system; benign pneumoconiosis (baritosis) Target Organs: Eyes, respiratory system (NIOSH, 2016)

4.3Indication of immediate medical attention and special treatment needed, if necessary

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/

## 5.Fire-fighting measures

# 5.1 Extinguishing media

# Suitable extinguishing media

Use dry chemical, carbon dioxide, water spray, or alcohol foam extinguishers ... If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated waters. Notify local health and fire officials and pollution control agencies. From a secure, explosion-proof location, use water spray to cool exposed containers. If cooling streams are ineffective (venting sound increases in volume and pitch, tank discolors or shows any signs of deforming), withdraw immediately to a secure position ... The only respirators recommended for fire fighting are self-contained breathing apparatuses that have full facepieces and are operated in a pressure-demand or other positive-pressure mode.

5.2Specific hazards arising from the chemical

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)

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6.Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Personal protection: particulate filter respirator adapted to the airborne concentration of the substance.

6.3Methods and materials for containment and cleaning up

Spill handling: evacuate and restrict persons not wearing protective equipment from area of spill or leak until cleanup is complete. Remove all ignition sources. Collect powdered material in the most convenient and safe manner and deposit in sealed containers. Ventilate area of spill or lead after clean-up is complete. It may be necessary to contain and dispose of this chemical as a hazardous waste. If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated waters. Contact your Department of Environmental Protection or your regional office of the federal EPA for specific recommendations.

#### 7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Store at 25\u00b0C (77 deg F); excursions permitted to 15 to 30\u00b0C (59 to 86 deg F)

#### 8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

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.

**Biological limit values** 

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eve/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Respiratory protection

Wear dust mask when handling large guantities.

Thermal hazards

no data available

#### 9.Physical and chemical properties

white powder Physical state Colour Fine, heavy powder or polymorphous crystals Odour Odorless Melting point/ freezing point 1580\u00baC Boiling point or initial boiling 330\u00baC at 760 mmHg point and boiling range Flammability Noncombustible SolidNot combustible. Gives off irritating or toxic fumes (or gases) in a fire. Lower and upper explosion no data available limit / flammability limit Flash point no data available Auto-ignition temperature no data available Decomposition temperature 1600\u00b0C рΗ 5% suspension in water is neutral to litmus paper Kinematic viscosity no data available 0.0002 % at 17.78\u00b0C (NIOSH, 2016) Solubility Partition coefficient nno data available octanol/water (log value) 0 mm Hg (approx) (NIOSH, 2016) Vapour pressure Density and/or relative 4.5 density Relative vapour density no data available Particle characteristics no data available 10.Stability and reactivity

10.1Reactivity no data available 10.2Chemical stability Stable under recommended storage conditions. 10.3Possibility of hazardous reactions Not combustible.BARIUM SULFATE is non-combustible and non-toxic. Emits toxic sulfur oxides when heated to decomposition. Can act as an oxidizing agent, but usually does not. Reacts with reducing agents such as potassium, phosphorus or aluminum (heating with aluminum can cause an explosion). 10.4Conditions to avoid no data available 10.5Incompatible materials Phosphorus, aluminum [Aluminum in the presence of heat can cause an explosion.] 10.6Hazardous decomposition products When heated to decomposition it emits toxic fumes of /sulfur oxides/.

#### **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

#### 12. Ecological information

12.1Toxicity

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\u00b0C, 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: intoxicaiton, immobilization

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

no data available

12.3Bioaccumulative potential

no data available

12.4Mobility in soil

no data available

12.5Other adverse effects

no data available

#### 13.Disposal considerations

13.1Disposal methods Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

IATA: no

#### 14.Transport information

14.1UN Number

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.2UN Proper Shipping Name

ADR/RID: unknown IMDG: unknown

IATA: unknown

14.3Transport hazard class(es) ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.4Packing group, if applicable

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

IMDG: no

14.5Environmental hazards

ADR/RID: no

14.6Special precautions for user

no data available

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

no data available

### 15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

| Chemical name  | Common names and synonyms | CAS number | EC number |
|--|---------------------------|------------|-----------|
| Barium sulfate 💧 🛛   | Barium sulfate            | 7727-43-7  | none      |
| European Inventory of  | Listed.                   |            |           |
| EC Inventory   |                           |            | Listed.   |
| United States Toxic Substances Control Act (TSCA) Inventory        |                           |            | Listed.   |
| China Catalog of Haza  | Not Listed.               |            |           |
| New Zealand Inventory of Chemicals (NZIoC)                         |                           |            | Listed.   |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) |                           |            | Listed.   |
| Vietnam National Chemical Inventory                                |                           |            | Listed.   |
| Chinese Chemical Inv   | Listed.                   |            |           |

#### Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.