



The Worldwide Resource...

# THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED \*STAR EXPORT HOUSE\*  
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

## Material Safety Data Sheet Bentonite

### 1. Identification of the substance / Preparation and Company

#### Identification of Substance or preparation:

**Commercial Product Name** : Bentonite Lumps / Granules / Powder

#### Company / Undertaking Identification:

**Company Name & Address** : The BTTCO Overseas  
6, Ashirvad Complex,  
Nr. Sardar Patel Seva Samaj Hall,  
Navrangpura, Ahmedabad-380009, India

**Telephone Number** : +91 94265 96891

**Contact Person** : Dinaish Lunkad

### 2. Composition / Information on Ingredients

**Chemical Characterization (substance)** : Bentonite  
**Chemical Formula** :  $Al_2O_3 \cdot 4SiO_2 \cdot H_2O$  Montmorillonite.  
**CAS No.** : CAS #1302-78-9  
**Hazardous Ingredients** : Crystalline Silica (Quartz, 14808-60-7) is present at less than 1.0% as a naturally occurring component not removed from the clay ore during processing. See Sec. 11 for further information.

### 3. Hazards Identification

#### Effects of a single (Acute) Overexposure:

**Eye Contact** : No  
**Skin Contact** : None Known

**Inhalation** : Short-term exposure to high dust levels could cause Minor irritation. Long-term exposure to high concentrations of dust should be avoided due to the presence of Quartz which can cause severe and permanent lung damage when inhaled. Control dust level with engineering controls (Local exhaust ventilation). Prevent dust inhalation with use of a NIOSH approved dust Respirator if engineering controls are inadequate.

**Swallowing** : No

6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad-380 009

Phone: +91 79 2640 6891, 2644 6891, 2646 6891 \* +91 942 659 6891

Email: [sales@bttcogroup.com](mailto:sales@bttcogroup.com) Website: [www.bttcogroup.com](http://www.bttcogroup.com)



The Worldwide Resource...

## THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED \*STAR EXPORT HOUSE\*  
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

**Effects of Repeated (Chronic) Overexposure:** Breathing of Excessive dust may cause Pulmonary disease.

**Other effects of Overexposure:**

<b>Breathing of Excessive Dust</b>	: May cause irritation to nasal respiratory passages.
<b>Irritancy of Material</b>	: Not Available
<b>Sensitisation</b>	: Not Available
<b>Synergistics Materials</b>	: Not Available

**Medical Conditions Aggravated by Overexposure:** Respiratory Disorders

**Significant Laboratory data with possible relevance to Human Hazard Evaluation:**

**Carcinogenicity** : Bentonite is believed to be physiologically inert.

### 4. First Aid Measures

<b>Eye Contact</b>	: Wash eyes with plenty of water for at least 15 mins, lifting lids occasionally. Seek Medical Aid.
<b>Skin Contact</b>	: Wash exposed area with soap and water. If irritation persists, seek medical assistance.
<b>Inhalation</b>	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Swallowing</b>	: Give several glasses of milk or water. Vomiting may occur spontaneously, but it is not necessary to induce. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	: None

### 5. Fire Fighting Measures

<b>Flash Point (Test method)</b>	: Not Applicable (non – flammable)
<b>Auto Ignition Temperature</b>	: Not Applicable
<b>Flammable Limits in Air, % by Volume</b>	: a. Lower Expl. Limit: Not Applicable b. Upper Expl. Limit: Not Applicable
<b>Extinguishing Media</b>	: Not Applicable (non-flammable unburnable)

6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad-380 009

Phone: +91 79 2640 6891, 2644 6891, 2646 6891 \* +91 942 659 6891

Email: [sales@bttcogroup.com](mailto:sales@bttcogroup.com) Website: [www.bttcogroup.com](http://www.bttcogroup.com)



The Worldwide Resource...

## THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED \*STAR EXPORT HOUSE\*  
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

**Special Fire Fighting Procedures / Caution** : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

**Unusual Fire and Explosion Hazards** : Negligible fire Hazard when exposed to heat or flame.

**Hazardous Combustion Products** : None

### 6. Accidental Release Measures

**Steps to be taken if Material is released or spilled**

: Wear protective equipment. Recover spilled material to original container for sale or to a suitable waste container. Minimise dusting during clean up. Flush residue with water.

**Personal Precautions** : Wear appropriate personal protective equipment.

**Environmental Precautions** : None

**Wasted Disposal Method / Methods for cleaning up:**

Product is not hazardous according to RCRA criteria or listing as supplied. Dispose-off with accordance with local, state and federal regulations dealing with a waste product.

### 7. Handling and Storage

**Precautions to be taken in Storage** : Store in Cool, dry, well-ventilated place away from incompatible materials.

**Precautions to be taken in Handling** : Wash thoroughly after handling.

### 8. Exposure Controls / Personal Protection

**Ventilation / Engineering Controls:**

**Local Exhaust** : Yes  
**Mechanical (general)** : Not available  
**Special** : Not available  
**Other** : Not available

**Respiratory Protection** : NIOSH approved Dust Mask

**Skin Protection** : Wear appropriate gloves to prevent skin exposure.

6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad-380 009

Phone: +91 79 2640 6891, 2644 6891, 2646 6891 \* +91 942 659 6891

Email: [sales@bttcogroup.com](mailto:sales@bttcogroup.com) Website: [www.bttcogroup.com](http://www.bttcogroup.com)



The Worldwide Resource...

## THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED \*STAR EXPORT HOUSE\*  
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

<b>Eye Protection</b>	: Safety Glasses w/ slide shields.
<b>Other Protective Equipment</b>	: Wear appropriate polymeric coated apron clothing to prevent skin exposure.

### 9. Physical and Chemical Properties

<b>Molecular weight</b>	: Not Available
<b>Specific Gravity</b>	: 2.4-2.5 (Water-1)
<b>Gas Density</b>	: Not Available
<b>Vapour Pressure</b>	: Not Available
<b>Solubility in water</b>	: Insoluble
<b>Percent Volatiles by volume</b>	: Least
<b>Evaporation Rate</b>	: Not Available
<b>pH</b>	: 9.0 – 9.5
<b>Sublimation Point</b>	: Not Available
<b>Appearance, Odor and state</b>	: Grey, Light Tan, Powder, Lumps, Granules, Odourless.

### 10. Stability and Reactivity

<b>Stability</b>	: Stable and swells to 12 times its Volume when added to water.
<b>Incompatibility (materials to avoid)</b>	: Molten Lithium attacks silicates.
<b>Hazardous Decomposition Products</b>	: Acid smoke and Irritating Fumes
<b>Hazardous Polymerization</b>	: Will not occur.
<b>Conditions to Avoid</b>	: Heat, flames.

### 11. Toxicological Information

The International Agency for research on cancer has determined that over – exposure to crystalline silica can cause lung cancer and silicosis, a progressive lung disease in humans. Health effects from exposure to crystalline silica occur only when it is inhaled.

<b>Eye Contact</b>	: As with any dust, will be irritating to the eyes due to physical abrasion.
--------------------	--



The Worldwide Resource...

## THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED \*STAR EXPORT HOUSE\*  
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

<b>Skin Contact</b>	: Prolonged skin contact may lead to drying or cracking of the skin due to the absorption of the moisture.
<b>Inhalation Effects</b>	: Crystalline silica has shown to cause Silicosis and Lung cancer. Crystalline silica only causes these conditions when inhaled.
<b>Medical Conditions Aggravated</b>	: Respiratory Disorders.
<b>Occupational Exposure Limits</b>	: Studies have shown that the crystalline silica is evenly distributed throughout all particle sizes of this product. Keep dust levels below permissible limits.
<b>ACGIH TWA</b>	: 0.1 mg/cu.m (as quartz)
<b>ACGIH STEL</b>	: Not Available
<b>OSHA PEL (respirable)</b>	: 10 mg/cu.m- / % SiO <sub>2</sub> + 2
<b>OSHA PEL (total dust)</b>	: 30 mg/cu.m- / % SiO <sub>2</sub> + 2

### 12. Ecological Information

<b>Mobility</b>	: Not Available
<b>Persistence and degradability</b>	: Not Available
<b>Bioaccumulations</b>	: Not Available
<b>Ecotoxicity</b>	: Not Available

### 13. Disposal Considerations

<b>Waste Disposal Method</b>	: Dispose off with accordance with local, state and federal regulations dealing with a waste product.
------------------------------	---

### 14. Transport Information

<b>DOT / IMO Shipping Name</b>	: Not Applicable
<b>Hazard Class</b>	: Not Regulated
<b>Identification Number</b>	: Not Applicable
<b>Product RQ</b>	: Not Applicable
<b>Shipping Label (s)</b>	: Not Applicable
<b>Placard (when required)</b>	: Not Applicable
<b>Special Shipping Information</b>	: Not Applicable



The Worldwide Resource...

## THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED \*STAR EXPORT HOUSE\*  
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

### 15. Regulatory Information

**Regulatory Information** : OSHA Hazard Communication categories: Irritant.

### 16. Other Information

**Additional Safety and Health Hazards** : Keep dust to a minimum. Use Adequate Ventilation.

**Notes to Physician** : None

**Protective Clothing and Equipment** : Wear long protective clothing with an apron to keep dust off clothes.

**Other Protective Equipment** : Wear appropriate clothing to prevent skin exposure.

**Other Hazardous Conditions of Handling Storage and Use** : Contains crystalline Silica, inhalation of which may cause cancer. Wear proper respiratory protective equipment

#### Disclaimer:

MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.

**Date: 01.04.2024**

**Place: Ahmedabad – Gujarat - India**

6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad-380 009

Phone: +91 79 2640 6891, 2644 6891, 2646 6891 \* +91 942 659 6891

Email: [sales@bttcogroup.com](mailto:sales@bttcogroup.com) Website: [www.bttcogroup.com](http://www.bttcogroup.com)