



# SAFETY DATA SHEET

## \*\*DESCRIPTION\*\*

Sodium Bentonite is a naturally occurring clay mineral with high swelling capacity and excellent odor-absorbing properties, widely used in pet hygiene applications as clumping cat litter. It is non-toxic, eco-friendly, and highly absorbent.

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Trade Name</b>	Bentonite
<b>Chemical Family</b>	Mineral
<b>Application</b>	Cat litter (pet hygiene grade)
<b>Manufacturer/Supplier</b>	EMCSAFE
<b>Phone Number</b>	Telephone: +989159080794
<b>Emergency Phone Number</b>	+989157980467
<b>Email</b>	Info@emcsafe.com
<b>Emergency Email</b>	Emcsafe@gmail.com

## SECTION 2 — HAZARD IDENTIFICATION

<b>Hazard Classification</b>	Not classified as hazardous under GHS. May cause mild eye or respiratory irritation due to dust
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## Precautionary Statements

## Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

## Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Sodium Bentonite (CAS No. 1302-78-9): 100% natural mineral

\*Crystalline silica content is below occupational exposure limit under intended use as cat litter.

\*\*Contained Crystalline Silica (Quartz, CAS No. 14808-60-7): <1%\*\*

### SECTION 4 — FIRST AID MEASURES

#### Inhalation

If inhaled, remove to a dust free area. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Inhalation may aggravate existing respiratory illness

#### Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

<b>Skin</b>	Wash with soap and water. Seek medical attention if irritation persists.
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<b>Ingestion</b>	Do Not induce vomiting. First aid measures not normally required.
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<b>Notes to Physician</b>	Treat symptomatically
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### SECTION 5 — FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Product is non-combustible. All standard firefighting media may be used.
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<b>Unsuitable Extinguishing Media</b>	None
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<b>Special Exposure Hazards</b>	None known. Product is not combustible.
<b>Special Protective Equipment and Precautions for Firefighters</b>	None for product. Wear self-contained breathing apparatus (SCBA) and full protective gear. Caution: slippery when wet.
<b>NFPA Ratings</b>	Health 1, Flammability 0, Reactivity 0

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

<b>Personal Precautionary Measures</b>	Use appropriate protective equipment. Avoid creating and breathing dust. Prevent further leakage or spillage if safe to do so.
<b>Environmental Precautionary Measures</b>	No special environmental precautions required
<b>Procedure for Cleaning/Absorption</b>	Prevent further leakage or spillage if safe to do so. Avoid generating dust. Collect using appropriate dustless method. Dispose in landfill according to local, state and federal regulations.

## SECTION 7 — HANDLING AND STORAGE

### Handling Precautions

This product contains quartz which may become airborne. Avoid breathing dust. Avoid creating dusty conditions. Promptly clean up spills to avoid breathing airborne dust. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH/MSHA European Standard En 149, or equivalent certified for silica bearing dust, respirator when using this product. Material is slippery when wet.

### Storage Information

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

Substance	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA
Crystalline Silica, quartz	14808-60-7	0.025 mg/m3	10 mg/m3* %SiO2 + 2

\*Quartz from Bentonite was specifically excluded from the new, lower PEL in the 2016 OSHA Respirable Crystalline Silica rulemaking. More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

## Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

## Personal Protective Equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

## Respiratory Protection

Respiratory protection is not required for typical consumer use (e.g., pouring cat litter). For industrial-scale handling with dust generation, use NIOSH-approved respirator (N95).

## Hand Protection

Standard work gloves.

## Skin Protection

Wear clothing appropriate for the work environment.

Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.

## Eye Protection

Wear safety glasses or goggles to protect against exposure.

## Other Precautions

None known.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### Physical State

Granular solid

### Color

Light tan to gray (as dry powder)

### Odor

Odorless

### pH

8-10 (5% aqueous suspension)

### Specific Gravity @ 20 C (Water=1)

2.45\_2.55

<b>Density @ 20 C (lbs/gallon)</b>	~20.4
<b>Bulk Density @ 20 C (lbs/ft3)</b>	60-66
<b>Boiling Point/Range (F/C)</b>	Not applicable
<b>Freezing Point/Range (F/C)</b>	Not applicable
<b>Vapor Pressure @ 20 C (mmHg)</b>	Not applicable
<b>Vapor Density (Air=1)</b>	Not applicable
<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate (Butyl Acetate=1)</b>	Not applicable
<b>Solubility in Water (g/100ml)</b>	Insoluble, forms colloidal suspension
<b>Solubility in Solvents (g/100ml)</b>	Not applicable
<b>VOCS (lbs/gallon)</b>	Not applicable
<b>Viscosity, Dynamic @ 20 C (centipoise)</b>	3.5 12.5 (6% aqueous suspension)
<b>Viscosity, Kinematic @ 20 C (centistokes)</b>	Not applicable
<b>Partition Coefficient/n-Octanol/Water</b>	Not applicable
<b>Molecular Weight (g/mole)</b>	Not applicable
<b>Flash Point/Range (F/C)</b>	Not applicable
<b>Flash Point Method</b>	Not applicable
<b>Autoignition Temperature (F/C)</b>	Not applicable
<b>Flammability Limits in Air - Lower (%)</b>	Not applicable
<b>Flammability Limits in Air - Upper (%)</b>	Not applicable

#### SECTION 10- STABILITY AND REACTIVITY

<b>Reactivity</b>	Nonreactive
<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Will not occur.
<b>Conditions to Avoid</b>	None known
<b>Incompatibility (Materials to Avoid)</b>	None known
<b>Hazardous Decomposition Products</b>	None known

**SECTION 11 TOXICOLOGICAL INFORMATION****Principle Route of Exposure**

Eye or skin contact, inhalation.

**Symptoms Related to the Physical, Chemical and Toxicological Characteristics**

<b>Inhalation</b>	Inhaled crystalline silica in the form of quartz from occupational sources is carcinogenic to humans (IARC, Group 1).
<b>Skin Contact</b>	May cause skin irritation due to drying
<b>Eye Contact</b>	May cause mechanical eye irritation.
<b>Ingestion</b>	None known.
<b>Aggravated Medical Conditions</b>	Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to respirable quartz-bearing dust.

**Chronic Effects/Carcinogenicity**

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis. Cancer Status: The International Agency for Research on Cancer (IARC, 1997) concludes that there is sufficient evidence in humans for carcinogenicity of inhaled crystalline silica from occupational sources (IARC Group 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. See IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997). The National Toxicology Program (NTP) classifies respirable crystalline silica as "Known to be a human carcinogen" (NTP 9th Report on Carcinogens, 2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

**Other Information**

See "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

**\*\*Consumer Notice:\*\*** Risk of silicosis or cancer is only associated with prolonged inhalation of respirable dust during industrial processing. Normal use as cat litter poses no significant hazard.

**Toxicity Tests****Oral Toxicity**

Not determined

<b>Dermal Toxicity</b>	Not determined
<b>Inhalation Toxicity</b>	Not determined
<b>Primary Irritation Effect</b>	Not classified
<b>Carcinogenicity</b>	Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997).
<b>Genotoxicity</b>	Not classified
<b>Reproductive/Developmental Toxicity</b>	Not classified

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Mobility (Water/Soil/Air)</b>	Not determined
<b>Persistence/Degradability</b>	Not determined
<b>Bio-accumulation</b>	Not determined
<b><u>Ecotoxicological Information</u></b>	
<b>Acute Fish Toxicity</b>	Not determined
<b>Acute Crustaceans Toxicity</b>	Not determined
<b>Acute Algae Toxicity</b>	Not determined

<b><u>Chemical Fate Information</u></b>	Not determined
<b><u>Other Information</u></b>	Not applicable

## SECTION 13 — DISPOSAL CONSIDERATIONS

<b>Disposal Method</b>	If product should become a waste dispose in a licensed landfill according to federal, state and local regulations
<b>Contaminated Packaging</b>	Rinse thoroughly before disposal. Dispose as non-hazardous waste in compliance with local regulations.

## SECTION 14 — TRANSPORT INFORMATION

### **Land Transportation**

<b>DOT</b>	Not regulated as dangerous goods
<b>Canadian TDG</b>	Not regulated as dangerous goods
<b>ADR</b>	Not regulated as dangerous goods

#### **Air Transportation**

<b>ICAO/IATA</b>	Not regulated as dangerous goods
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#### **Sea Transportation**

<b>IMDG</b>	Not regulated as dangerous goods
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#### **Other Transportation Information**

<b>Labels</b>	None
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### SECTION 15-REGULATORY INFORMATION

#### **US Regulations**

<b>US TSCA Inventory</b>	All components listed on inventory or are exempt.
<b>EPA SARA Title III Extremely Hazardous Substances</b>	Not applicable
<b>EPA SARA (311, 312) Hazard Class</b>	Chronic Health Hazard
<b>EPA SARA (313) Chemicals</b>	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).
<b>EPA CERCLA/Superfund Reportable Spill Quantity</b>	Not applicable
<b>EPA RCRA Hazardous Waste Classification</b>	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

#### **California Proposition 65**

This product contains crystalline silica (quartz), a substance known to the State of California to cause cancer.  
 \*\*However, the risk is associated only with prolonged inhalation of respirable dust.\*\*

#### **Canadian Regulations**

<b>Canadian DSL Inventory</b>	All components listed on inventory or are exempt.
<b>WHMIS Hazard Class</b>	This product contains crystalline silica (respirable) and is classified as a Class D, Division 2, Subdivision A substance.

### SECTION 16 OTHER INFORMATION

<b>Prepared</b>	23/01/2021
<b>Last Revision</b>	06/01/2024



## DISCLAIMER

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by EMCSAFE. as to this information, or as to the safety, toxicity or effect of the use of this product.

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The information and data made here in are believed to be accurate. However, considering that production may come from new mineral veins or different mines, if a more detailed analysis or a laboratory certificate is required, please specify it at the time of contract signing.

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