



273 St. Zotique E.,  
Montréal, Québec H2S 1L4  
[www.coopcoco.ca](http://www.coopcoco.ca)  
514-270-0539

## SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

**Product name** Bentonite clay

**Synonyms and other names** Bentonite, Volclay

**Recommended uses** Not available.

**Material uses** Not available.

**Supplier** Coop Coco & Calendula  
273 Rue Saint-Zotique E, Montréal, QC  
H2S 1L4

**Emergency number** Poison control Centre: 1-800-463-5060

### SECTION 2 - HAZARDS IDENTIFICATION

**Product classification (WHMIS 2015)** Carcinogenicity - Category 1A: Contains 0.1% of a carcinogen: crystalline silica  
Toxicity to target organs - repeated exposure - Category 1



**Hazards information** Danger  
Can cause cancer (H350)  
Risk of serious damage to organs through prolonged or repeated exposure (H372)

### SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

**Chemical name** Montmorillonite.

**Composition**

<u>Ingredient</u>	<u>CAS number</u>	<u>Concentration %</u>
Montmorillonite clay / bentonite	1302-78-9	90 - 100
Crystalline silica, quartz	14808-60-7	1 - 10

**Additional information** Probably carcinogenic to humans.

### SECTION 4 - FIRST AID MEASURES

**Eye contact** Immediately flush eyes thoroughly with water for 15 minutes. Keep eyelids open during rinsing. If irritation persists, repeat the rinse. Obtain medical attention immediately.



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<b>Skin contact</b>	Start rinsing while removing contaminated clothing. Wash affected areas with soap and water. If irritation persists, consult a physician.
<b>Inhalation</b>	If breathing problems occur, get victim to fresh air. Use artificial respiration only if the subject is not breathing. Practice cardiopulmonary resuscitation if there is both respiratory arrest and no pulse. Seek urgent medical attention.
<b>Ingestion</b>	Do not attempt to give anything by mouth to an unconscious person. If the victim is conscious and is not seized with convulsions, rinse his mouth and give him a half a glass of water to dilute the material. Do not induce vomiting. In case of vomiting spontaneously, tilt the victim, head down to the front, to prevent it from aspirating vomit; Make him rinse his mouth and give him more water. Obtain emergency medical attention.

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### SECTION 5 - FIRE AND EXPLOSION DATA

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<b>Fire extinguishing procedures</b>	Use appropriate materials to contain fire or material. Foam. A dry chemical, carbon dioxide or water spray.
<b>Special remarks on fire/explosion hazards</b>	Reduce the spread of dust to the maximum. Spilled material can cause contact surfaces and slippery floors. Flammable by contact with fluorine. Do not rinse with water since aqueous solutions or powders that become wet make surfaces extremely slippery.
<b>Fire fighting media and instructions</b>	Wear protective clothing and self-contained breathing apparatus.

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### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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<b>Protective clothing in case of spill and leak</b>	See section 8.
<b>Environmental precautions</b>	Not available.
<b>Methods and material for containment and cleaning up</b>	<p>Reduce the spread of dust to the maximum. Put on breathing apparatus, protective clothing and gloves. Avoid dry sweeping. Do not clean surfaces with compressed air. Sweep or vacuum dust rather than using compressed air. Return the maximum amount of product to the container for proper disposal. Prevent infiltration into sewers and water courses. Collect the product for recovery or disposal. Ventilate enclosed spaces. If the spill was to be reported or if it was found to be harmful to the environment, notify the appropriate governmental authorities.</p> <p>If the packaging (bag or drum) of the product is damaged, repair it or immediately put it in a recovery drum to avoid or minimize product loss and contamination of the immediate environment. Any recovered product may be used, depending on the nature and extent of contamination, as usual.</p>

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### SECTION 7 - HANDLING AND STORAGE

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<b>Handling precaution</b>	<p>Adopt good habits of hygiene and housekeeping. Reduce the spread of dust to the maximum. Clean immediately to eliminate the risk of skidding.</p> <p>Use only in a well ventilated area and avoid inhaling dust. Avoid contact of the product with the eyes, skin or clothing. Wash thoroughly with soap and water after handling the product. Wash contaminated clothing thoroughly before reuse.</p>
<b>Storage precaution</b>	<p>Store in a cool, dry and well ventilated area. Keep away from heat, sparks and flames. Keep containers closed. Avoid moisture that may contaminate the product. Prolonged storage may cause hardening or agglutination. Protect from daylight. Protect from physical damage.</p> <p>Construction materials for storage include: polyethylene, paper bags. Confirm that materials are suitable before use.</p>

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### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Exposure limits</b>	Maximum concentrations: 0.5 mg / m <sup>3</sup> Crystalline silica - quartz (NIOSH).
<b>Engineering controls</b>	<p>A general ventilation system is acceptable.</p> <p>Local exhaust fans required. Ventilate low areas such as wells or collectors where dense dust can build up.</p>
<b><u>Personal protection :</u></b>	
<b>Inhalation</b>	No particular guidance available. Respirator with NIOSH / MSHA approved filter cartridges with dust, mist and vapor cartridges for maximum concentrations of 0.5 mg / m <sup>3</sup> Crystalline silica - quartz. In case of higher or unknown concentrations, it is recommended to use an air-supplied respirator.
<b>Skin</b>	Neoprene, PVC or rubber gloves and protective clothing should ensure leak-tightness under conditions of use. Before use, the user must ensure that they are waterproof. Discard contaminated gloves.
<b>Eye</b>	Wearing safety glasses with side shields is recommended to avoid eye contact. Wear monocoque antacid glasses if there is a risk of eye contact. Contact lenses should not be worn when working with this product.
<b>Other personal protective equipment</b>	Wear normal working clothes. Wearing a sweat suit is recommended. Locate the emergency shower and the eye fountain in the vicinity of the chemical handling area. Take precautions to avoid direct contact with the product.

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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical state and appearance</b>	Solid, granules or powder gray or chamois.
<b>Odor / Odor threshold</b>	Odorless.
<b>pH</b>	8.0 - 10.0 (5% suspension).



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<b>Melting Point</b>	1 450 - 1 580 °C
<b>Boiling Point</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not combustible.
<b>Flammable limits</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	2.4 - 2.6 (g/cc).
<b>Solubility</b>	Not available.
<b>Water/oil dist. coeff.</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

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### SECTION 10 - STABILITY AND REACTIVITY DATA

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<b>Stability</b>	Stable.
<b>Reactivity</b>	Not flammable.
<b>Possibility of hazardous reactions</b>	<p>The product is probably not sensitive to shock. The product is probably not sensitive to static discharge.</p> <p>High temperatures, sparks, open flames and other sources of ignition. Reduce the spread of dust to the maximum. Humidity. Keep tightly closed to protect product quality.</p>
<b>Incompatibility with substances</b>	Unknown.
<b>Decomp. products</b>	Products released during thermal decomposition are toxic and may include: silicon, oxides of carbon and irritating gases.

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### SECTION 11 - TOXICOLOGICAL INFORMATION

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<b>Note</b>	Inhalation is harmful. Dust causes mechanical irritation to the skin, eyes and respiratory tract. Severe exposure may cause lung damage. Danger of cancer. Refer to "Other Health Effects". At high temperatures, the product may decompose to toxic gases.	
<b>Acute effect</b>	<u>Ingredient</u>	<u>TLV de l'ACGIH (TWA)</u>
	Montmorillonite clay / bentonite	-
	Crystalline silica, quartz	0.025 mg/m <sup>3</sup>



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<b>Eye</b>	This product may cause irritation, redness and injury due to its abrasive action. Prolonged contact with dust may cause eye drying due to oils and moisture absorption. The product may cause excessive tearing.
<b>Skin</b>	This product may cause irritation due to its abrasive action. Prolonged contact with dust may cause drying out of the skin due to oils and moisture absorption. There is a risk of destruction of the natural greasy film of the skin, drying out and cracking.
<b>Inhalation</b>	The product irritates the nose, throat and respiratory tract. Prolonged contact with dust can cause drying of the nasal membranes and throat due to their absorption of oils and moisture.
<b>Ingestion</b>	There is a risk of mild gastrointestinal irritation. Ingestion in large amounts may cause intestinal obstruction.
<b>Chronic effects</b>	<p>In general, long-term exposure to high concentrations of dust can increase the flow of mucus from the nose and respiratory tract. Usually, this state disappears with the end of the exposure. There is, however, controversy over the role of exposure to dust in the development of chronic bronchitis (inflammation of the airways in the lungs).</p> <p>Other factors, such as smoking and air pollution in general, are more important, but exposure to dust is also a contributing factor. The product may cause silicosis and pneumoconiosis. Silicosis develops gradually for about 20 years or more. It is characterized by cough, sputum production, dyspnea, wheezing, silicotic nodules in the lungs and lung problems. In more advanced cases, fever, weight loss, cyanosis, digital hippocratism, bacterial infections and death can occur due to complications involving tuberculosis. The first symptoms of silicosis are non-specific so that the development of silicosis can not be detected in the early stages. Silicosis may continue to develop even after exposure has stopped. X-rays can prove the presence of silicosis.</p> <p>The severity of silicosis can be minimal to severe. Low typical silicosis shows no impairment of respiratory function. X-rays, however, provide evidence of damage to the lungs. Severe cases show significant and increasingly severe disturbances in respiratory function. There is no known treatment for the disease. Life expectancy is reduced, depending on severity. Death is not the direct result of silicosis, but there may be cor pulmonale (heart failure) as the heart presents difficulties in pumping blood to the lungs. Silicosis can be complicated by bacterial infections, including tuberculosis.</p> <p>"Accelerated" silicosis is the result of exposure to high concentrations of crystalline silica for five to ten years. The disease continues to develop even if exposure is stopped and is associated with autoimmunity diseases such as scleroderma.</p> <p>"Acute" silicosis (also known as "silicotic alveolar proteinosis") is rare in humans, but it can develop if there is inhalation of very high concentrations of crystalline silica for a year or two. Acute silicosis can lead to death in a few years, often accompanied by complications such as tuberculosis.</p> <p>Inhalation of quartz has been associated with a number of other harmful effects. These include: kidney damage (glomerulonephritis), liver changes, spleen effects, and immune system disorder.</p> <p>Pneumoconiosis is a reaction of pulmonary tissue to an accumulation of dust in the lungs. In cases of intense or prolonged exposure to dust, lung defenses are no longer sufficient.</p>

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## SECTION 12 - ECOLOGICAL INFORMATION

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**Ecotoxicity** Not available. The product may be harmful to aquatic life.



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**Persistence and degradation**  
**Bioaccumulation**  
**Mobility in soil**

Not available. This product is unsightly and can be harmful. May be dangerous if it enters the water intakes. Do not contaminate domestic and irrigation water, lakes, ponds, streams and rivers.

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### SECTION 13 - DISPOSAL CONSIDERATIONS

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**Waste Disposal**

This information applies to the product as manufactured. The user may be required to re-evaluate the product when it is available, since its use, processing, mixing and treatment may influence its classification. Dispose of waste material in a licensed facility for the treatment or disposal of hazardous waste in accordance with applicable municipal, provincial and federal regulations. Do not throw in household garbage or sewers.

**Container disposal**

Empty containers still contain product residues and can be hazardous. Dispose of waste material in a licensed facility for the treatment or disposal of hazardous waste in accordance with local, state, and federal regulations.

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### SECTION 14 - TRANSPORT INFORMATION

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**United Nations number / Identification**

Not regulated.

**Transportation of Dangerous Goods Regulations**

Not regulated.

**Packing group**  
**Environmental hazards**  
**Bulk transport**

Not applicable.

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### SECTION 15 - OTHER REGULATORY INFORMATION

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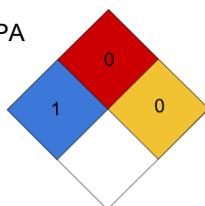
**Federal, international and other regulations**

CANADA  
CEPA - NSNR: All ingredients of this product appear on the DSL under the authority of the Canadian Environmental Protection Act.  
CEPA - NPRI: Not included.

USA  
Environmental Protection Act: All ingredients of this product appear on the US EPA list of products.

**Other classification**

NFPA



HMIS

Health	1
Flammability	0
Physical hazard	0



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### SECTION 16 - OTHER INFORMATION

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**Last Updated**

19-2-2016

IMPORTANT : The information presented herein is believed to be accurate and is obtained from current and reliable sources. Final determination of the suitability of the material is the sole responsibility of the user, this document is offered only as a guide. Users assume all risk of use, storage and handling of the product. Coop Coco & Calendula shall not be held responsible for any damages to property or for any adverse physical effects (including injury or bodily harm) caused by insufficient knowledge or the improper use of a product. Coop Coco & Calendula strongly recommends small lab scale testing for evaluation purposes prior to full commercial manufacturing.