



MSDS - Bentonite

Issued January 3, 2005

Section 1. Product Information

Product Name: Bentonite Powder

Product Use: Carriers, Fillers, Binders and Sealants

Distributed by Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency Telephone (Canutec): 613-996-6666

Section 2. Hazardous Ingredients

Free Silica (silica, quartz, silica crystalline quartz)

CAS # 14808-60-7

W/w%: 2 - 4.5

TLV/TWA: <0.1mg/m³

LD50/LC50: No data

Section 3. Physical/Chemical Data

Physical State: Solid

Odour and Appearance: Odourless, buff to gray powder, granules or nuggets

Odour Threshold: Not applicable

Vapour Pressure: Not applicable

Vapour Density: Not applicable

pH: 9

Specific Gravity: 2 - 3

Co-efficient Water/Oil Distribution: 1

Evaporation Rate: Not applicable

Boiling/Freezing Point: Not applicable

Section 4. Fire and Explosion Data

Flammable: No

Means of Extinction: Not applicable

Flashpoint Method: Not applicable

Upper/Lower Flammable Limit: Not applicable
Auto-ignition Temperature: Not applicable
Hazardous Combustion Products: Not applicable
Sensitivity to Impact: Not applicable
Sensitivity to Static Discharge: Not applicable

Section 5. Reactivity Data

Product is stable
Incompatible with Other Substances: Not applicable
Reactive and Under What Conditions: Not applicable
Hazardous Decomposition Products: Not applicable

Section 6. Toxicological Properties

Route of Entry: Skin and eye contact, inhalation

Effects of Acute Exposure: Eye irritation, lung irritation, skin irritation

Effects of Chronic Exposure: Cases of silicosis, asthma, eczema and dermatitis have been reported outside of Canada.

Exposure Limits: Bentonite - no data Free Silica - TLV=TWA: 0.1 mg/m³

Irritancy of Product: Does not meet criteria

Sensitization to Product: Does not meet criteria

Carcinogenicity:

Bentonite: No data

Free Silica: Class 2A - Probable Carcinogen (IARC)

Teratogenicity:

Bentonite: No data

Free Silica: Insufficient information

Reproductive Toxicity:

Bentonite: No data

Free Silica: Insufficient data

Mutagenicity:

Bentonite: No data

Free Silica: Insufficient information

Synergistic Products: Not applicable

Section 7. Preventive Measures

Personal Protective Equipment: Eye protection, masks or respirators, gloves

Gloves: Dust resistant

Respirator: Mask or approved respirator rated for free silica

Eye: High dust conditions - Monogoggle

Low dust conditions - Safety glasses with side and top shields

Footwear: Dust resistant

Clothing: Dust resistant

Engineering Controls: Ventilation and filtration systems to keep dust at a minimum

Leak and Spill Procedure: Shovel into containers with WHMIS Workplace label, hose away residual dust.

Caution: Slippery when wet

Waste Disposal: Bury in landfill

Handling Procedures and Equipment: Personal Protective Equipment as above; keep dust minimal

Storage Requirements: Store in a dry place

Special Shipping Information: Not applicable

Section 8. First Aid Procedures

Eye Contact: Remove personnel from dusty area to area with clean air. Immediately flush eyes with gently flowing lukewarm water for 15 minutes (timed) holding the eyelids open. Seek medical attention.

Lung Irritation: Remove personnel from dusty area to area with clean air. Give artificial respiration if not breathing. Seek medical attention.

Skin Irritation: Wash skin with soap and water. Seek medical attention.

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