

M A T E R I A L S A F E T Y D A T A S H E E T

Emergency Phone Number 1-306-732-2085

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER	Bentonite
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PRODUCT USE OF Bentonite: Carriers, Fillers, Binders, & Sealants

PRODUCT IDENTIFICATION NUMBER (PIN) n.ap.

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS Free Silica (silica, quartz; silica crystalline quartz)

<u>CAS #</u>	<u>w/w%</u>	<u>TLV/TWA</u>	<u>LD50</u>	<u>LC50</u>
14808-60-7	2 - 4.5	< 0.1mg/m3	no data	no data

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE Solid

<u>ODOUR AND APPEARANCE</u>	Odourless, buff to gray powder, granules or nuggets.
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ODOUR THRESHOLD (ppm)	n.ap.	EVAPORATION RATE	n.ap.
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VAPOUR PRESSURE (mm Hg) n.ap. BOILING POINT (C) n.ap.

VAPOUR DENSITY (AIR=1) n.ap. FREEZING POINT (C) n.ap.

pH = 9 SPECIFIC GRAVITY = 2 - 3

COEFFICIENT WATER/OIL DISTRIBUTION = 1

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABLE No

MEANS OF EXTINCTION n.ap.

FLASHPOINT (C) AND METHOD	n.ap.
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UPPER FLAMMABLE LIMIT n.ap.

n.ap. = not applicable TLV = Threshold Limit Value
TWA = Time Weighted Average Concentration

<u>LOWER FLAMMABLE LIMIT</u>	n.ap.
<u>AUTOIGNITION TEMPERATURE (C)</u>	n.ap.
<u>HAZARDOUS COMBUSTION PRODUCTS</u>	n.ap.
<u>EXPLOSION DATA</u>	
<u>SENSITIVITY TO IMPACT</u>	n.ap.
<u>SENSITIVITY TO STATIC DISCHARGE</u>	n.ap.

SECTION 5 - REACTIVITY DATA

<u>CHEMICALLY STABLE</u>	yes
<u>INCOMPATIBLE WITH OTHER SUBSTANCES</u>	n.ap.
<u>REACTIVE AND UNDER WHAT CONDITIONS</u>	n.ap.
<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>	n.ap.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Skin contact, eye contact and inhalation.

Eye irritation; lung irritation; skin irritation.

Cases of Silicosis, Asthma, Eczema and Dermatitis have been reported outside of Canada.

Bentonite: no data

Free Silica: TLV = TWA = 0.1 mg/m3

does not meet criteria

does not meet criteria

Bentonite: no data

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

Bentonite: no data

Free Silica: insufficient information

Bentonite: no data

Free Silica: insufficient information

Bentonite: no data

Free Silica: insufficient information

n.ap.

SECTION 7 - PREVENTATIVE MEASURES

Eye protection; masks or respirators; 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

PRODUCT IDENTIFIER

Bentonite

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

n.ap.

SECTION	8	-	FIRST	AID	MEASURES
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SPECIFIC MEASURES

1. EYE IRRITATION - 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.
2. LUNG IRRITATION - remove personnel from dusty area to area with clean air - give artificial respiration if not breathing. Seek medical attention.
3. SKIN IRRITATION - wash skin with soap and water. Seek medical attention.

SECTION	9	-	WHMIS	CLASSIFICATION
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CLASS D - Poisonous and Infectious Material - Division 2
Subdivision A

***SECTION	10	-	PREPARATION	DATE	OF	MSDS
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PREPARED BY Colin Jones Technical Manager

PHONE NUMBER (306) 732-2085

DATE JANUARY 3, 2005

