

ZMM[®] Diatomaceous Earth

Material Safety Data Sheet for All Particle Sizes

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ZMM [®] Diatomaceous Earth	
PRODUCT USE:	
WHMIS CLASSIFICATION: Not WHMIS controlled	
MANUFACTURER & SUPPLIER'S NAME:	ZMM [®] Canada Minerals Corp.
ADDRESS:	6459 Mack Road, Peachland, BC V0H 1X8
IN CASE OF EMERGENCY:	(250) 767-6788

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC ₅₀ OF INGREDIENTS (SPECIFY SPECIES)
Natural Diatomaceous Earth (DE) Amorphous Silica		61790-53-2	OSHA PEL/ACGIH TLV 10 mg/m ³ total dust for products containing < 1% to 3% quartz, ACGIH 6 mg/ m ³ total dust, MSHA 2.25 mg/ m ³ Respirable Mass (based on 2.5% Crystalline Silica)	
May Contain up to 1% Quartz (Crystalline Silica)		14808-60-7		

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE: Solid		ODOR & APPEARANCE: Odorless; light brown to tan			
VAPOUR PRESSURE: (mmHg) NAP	VAPOUR DENSITY: (Air=1) NAP	EVAPORATION RATE: NAP (Butyl Acetate = 1)	BOILING POINT (°C): NAP	FREEZING POINT (°C): NAP	MELTING POINT(°C): NAP
	SPECIFIC GRAVITY: (H ₂ O=1) 2.2 – 2.3	COEFF. WATER/OIL DIST. NAP		SOLUBILITY IN WATER: Negligible	

SECTION 4– FIRE AND EXPLOSION DATA

FLAMMABILITY: Not combustible or flammable		
MEANS OF EXTINCTION: Not applicable		
SPECIAL PROCEDURES: None		
FLASHPOINT (°C) AND METHOD: Non Flammable	UPPER FLAMMABLE LIMIT (% BY VOLUME): NAP	LOWER FLAMMABLE LIMIT (% BY VOLUME): NAP
AUTOIGNITION TEMPERATURE (°C): NAV	HAZARDOUS COMBUSTION PRODUCTS: Volcanic ash, not combustible	
EXPLOSION DATA: SENSITIVITY TO IMPACT: No SENSITIVITY TO STATIC DISCHARGE: NAP		

SECTION 5– REACTIVITY DATA

CHEMICAL STABILITY: Stable	CONDITIONS TO AVOID: None in designed use
INCOMPATIBILITY: NAV	CORROSIVE BEHAVIOUR: NAV
REACTIVITY AND UNDER WHAT CONDITIONS: Stable	
HAZARDOUS POLYMERIZATION: Will not occur	

SECTION 6– TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN CONTACT: No **SKIN ABSORPTION:** No **EYE CONTACT:** Yes, dust **INHALATION:** Yes
INGESTION: No

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Transitory upper respiratory or eye irritation. Coughing or throat irritation, red or itchy eyes.

EFFECTS OF CHRONIC EXPOSURE: Prolonged and repeated exposure to concentrations of the products' dust in excess of the PEL/TLV can cause chronic pulmonary disease. Dust contact with eyes may cause temporary irritation.

MEDICAL CONDITIONS GENERALLY AGGREVATED BY EXPOSURE: Pre-existing diseases of the upper respiratory tract and lung such as, but not limited

SYNERGISTIC PRODUCTS: None Known	IRRITANCY: NAV	SENSITIZATION: NAV	CARCINOGENICITY: IARC AND ACGIH – Not Listed
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TERATOGENICITY: NAV	REPRODUCTIVE HAZARD: NAV	MUTAGENICITY: NAV	
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SECTION 7– PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

Glove and Eye Protection: Not required to handle the granular product. If product is dusty, wear eye and hand protection.

Footwear: No specialized footwear needed.

Protective Clothing: Normal workplace coveralls

Respirators: If handling methods generate dust, wear a cartridge respirator equipped with a nuisance dust respirator (eg. 3M 710) or dual cartridge respirator with High Efficiency Particulate Air cartridges (N100 or better)

Other Protective Equipment: None required.

Work/Hygienic Practices: Provide proper respiratory protection and have eye wash stations available.

ENGINEERING CONTROLS: General ventilation is adequate.

LEAK AND SPILL PROCEDURE: Normally not required.

WASTE DISPOSAL: Waste is not hazardous per RCRA (40CFR261) and is not biodegradable. May be disposed in landfill, however, state and local regulations may vary. Consult local agencies as needed. Used material could become contaminated and have different characteristics, depending upon contaminant(s) and should be evaluated accordingly.

HANDLING PROCEDURES AND EQUIPMENT: Prevent or minimize dust generation. Provide adequate ventilation to keep dust level below PEL/TLV. Avoid breathing dust. Avoid contact with eyes. Seal broken bags immediately. Continue to follow all MSDS/label warnings when handling empty containers.

STORAGE REQUIREMENTS: Store in a dry location with good general ventilation.

SPECIAL SHIPPING INFORMATION: NAP

SECTION 8– CONTROL MEASURES

INHALATION: Remove to fresh air. If symptoms persist, consult physician.

EYE CONTACT: Flush eyes with large amounts of water. If irritation persists, get medical attention. Have eye wash stations available.

RESPIRATORY PROTECTION: <10XPEL, use an N95 quarter or half mask respirator; >10X<50X PEL, use a full-face respirator equipped with N95 filters; >50X<200X PEL, use a powered air purifying respirator with N95 filters; >200 XPEL, use a full-face type C supplied air respirator (continuous flow mode), hood or helmet.

SKIN CONTACT; Wash skin with soap and water. Protective gloves normally not necessary.

INGESTION: NAP

SECTION 9– PREPARATION DATE OF MSDS

PREPARED BY:
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6459 Mack Road
Peachland, BC V0H 1X8

SIGNATURE:

DATE: March 5, 2018

BUSINESS PHONE: 250-767-6788

ADDITIONAL INFORMATION:

NAP: Not applicable

NAV: Not available