

ZMM[®] Canada Minerals Corp.

ZMM[®] T-Carbon

Material Safety Data Sheet

SECTION 1 – PRODUCT IDENTIFICATION AND USE					
PRODUCT IDENTIFIER: ZMM [®] T-Carbon					
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					%
Wood chip-based Carbon (no paint or stain)					>85%
Wood chip-based [non-soluble] ash					<15%
Water					<5%
SECTION 3 – PHYSICAL DATA					
PHYSICAL STATE: Solid		ODOR & APPEARANCE: Color is gray to black predominantly black, odorless.		SPECIFIC GRAVITY: (H ₂ O=1) 1.8-2.1 Note that bulk density differs, and T-Carbon will float for some hours prior to taking on water and sinking.	
SOLUBILITY IN WATER: Insoluble in water		VAPOUR DENSITY: (Air=1) NAP	EVAPORATION RATE: No Information	BOILING POINT (°C): Sublimates 4827	FREEZING POINT (°C): NAP
MELTING POINT(°C): 350°C					
SECTION 4 – FIRE AND EXPLOSION DATA					
EXTINGUISHING MEDIA: Water spray, dry chemical, alcohol foam, or carbon dioxide					
SPECIAL FIRE FIGHTING PROCEDURES: None					
FLASHPOINT (°C) AND METHOD: NAP – Autoignition Temperature >400 degrees C		FLAMMABLE LIMITS: No data found	LEL: No data found	UEL: No data found	
UNUSUAL FIRE AND EXPLOSION HAZARDS: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard. Minimum explosible concentration 0.140 g/l					
SECTION 5 – REACTIVITY DATA					
CHEMICAL STABILITY:		Stable under ordinary conditions of use and storage			
INCOMPATIBILITY: (Materials to Avoid)		CONDITIONS TO AVOID: Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids. Avoid high temperatures and O ²			
REACTIVITY AND UNDER WHAT CONDITIONS: Stable					
HAZARDOUS POLYMERIZATION: Will not occur					
SECTION 6 – TOXICOLOGICAL PROPERTIES					
ROUTE OF ENTRY: SKIN CONTACT: No					
SKIN ABSORPTION: Use of long sleeves, pants, close toed shoes, and eye protection is recommended					
EYE CONTACT: Yes, dust					
INHALATION: Inhalation - avoid inhalation by use of P100 respirator or P100 + VOC control					
INGESTION: Ingestion, use reparatory filters to not ingest, do not ingest. Low amounts of T-Carbon contact should only produce mild irritation which can be corrected by rinsing with water					
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:			Prolonged inhalation of excessive dust may produce pulmonary disorders		
CARCINOGENICITY: Not known					
MEDICAL CONDITIONS GENERALLY AGGREVATED BY EXPOSURE:			National Toxicology Program (NTP) - does not address T-Carbon. IARC monographs - no monograph is available on T-Carbon. Monographs are available on carbon black, a more volatile product than T-Carbon		
SYNERGISTIC PRODUCTS: None Known			IRRITANCY:	OSHA does not regulate T-Carbon	
TERATOGENCITY: NAV			REPRODUCTIVE HAZARD: NAV	MUTAGENCY: NAV	

SECTION 7– PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVE AND EYE PROTECTION: Yes - goggle or side shield types

FOOTWEAR:

PROTECTIVE CLOTHING: Long sleeves, pants, closed toed shoes

RESPIRATORS:

OTHER PROTECTIVE EQUIPMENT:

WORK/HYGIENIC PRACTICES:

ENGINEERING CONTROLS:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area

LEAK AND SPILL PROCEDURE:

WASTE DISPOSAL:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements

HANDLING PROCEDURES AND EQUIPMENT: Avoid sending product airborne in a confined environment

STORAGE REQUIREMENTS:

SPECIAL SHIPPING INFORMATION:

SECTION 8– CONTROL MEASURES

INHALATION:

If dust is airborne remove sources of ignition, ventilate area, wear appropriate personal protective equipment including long pants and sleeves, eye protection and respirator (P100 type). Reduce airborne dust with water. Use non-sparking tools and equipment. Spent product may absorb other products in that environment

EYE CONTACT:

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

RESPIRATORY PROTECTION:

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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SIGNATURE:



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ADDITIONAL

INFORMATION:
NAP: Not applicable
NAV: Not available

DATE: March 4, 2019