

Vancouver Energy
NPDES Engineering Report

EFSEC Application for Site Certification No. 2013-01
Docket No. EF131590



Appendix J
Product, Stored Bulk Liquids, and Hazardous
Material Safety Data Sheets

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Type: Activated Carbon

Product Names: AquaCarb® Series (except the NoRise family), VOCarb® Series (except the 410 family and the HgFree family), AC Series, VC Series, BevCarb® Series, and UltraCarb® Series

Manufacturer's Name: Siemens Water Technologies Corp.

Address: 14250 Gannet Street, La Mirada, CA 90638

Product/Technical Information Phone Number: (714) 228 - 8800

Medical/Handling Emergency Phone Number: CHEMTREC (800) 424-9300
24 hours / day everyday

Transportation Emergency Phone Number: CHEMTREC (800) 424-9300
24 hours / day everyday

Issue Date/Revision Number: 18 March 2010 / Rev 3

SECTION 2- COMPOSITION INFORMATION

<u>Chemical Name</u>	<u>Percent by Weight</u>	<u>CAS#</u>
Activated Carbon	100	7440-44-0

SECTION 3- HAZARDS IDENTIFICATION

Appearance & Odor: black particles without taste or odor

Emergency Overview:

Activated carbon particles on the floor make the floor slippery. Particles may irritate the eyes and cause mechanical injury.

Warning: Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered in enclosed spaces. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.

Fire & Explosion Hazards: The adsorption of organic compounds onto activated carbon generates heat. In rare instances, adsorbed compounds may also react on the carbon surface to generate additional heat. If these heat sources are not properly dissipated, particularly in vapor-phase carbon applications, the carbon bed temperature may rise to the point where the carbon can ignite, leading to a fire or other hazardous condition.

Primary Route(s) of Exposure: Eye contact, skin contact, and inhalation.

Inhalation – Acute Effects: May be irritating to the respiratory tract and cause coughing or sneezing.

Skin Contact – Acute Effects: May cause slight skin irritation.

Eye Contact – Acute Effects: May irritate eyes or cause mechanical injury.

Ingestion – Acute Effects: May irritate the gastrointestinal tract.

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SECTION 4- FIRST AID MEASURES

Inhalation First Aid: Remove affected person to fresh air. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention immediately.

Skin Contact First Aid: Wash skin for 5 minutes with flowing water and soap. Clothing should be washed before reuse. Obtain medical assistance if irritation develops.

Eye Contact First Aid: Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyelids open. Contacts should be removed before or during flushing. Get medical assistance if irritation develops.

Ingestion First Aid: Do not induce vomiting. Obtain medical attention immediately.

Medical Conditions Aggravated: Respiratory ailments may be aggravated by exposure to dusts of this material.

Note to Physician: No specific antidote. Treat symptomatically.

SECTION 5- FIRE FIGHTING MEASURES

Flash Point/Method: Nonflammable **Auto Ignition Temperature:** 840°C (1,710°F)

Upper/Lower Explosion Limits: Not applicable.

Extinguishing Media: Water spray, carbon dioxide, foam or dry chemical

Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in positive pressure mode.

Unusual Fire & Explosion Hazards: Avoid producing suspensions of dust during handling and avoid exposure of suspensions to sources of ignition. Suspensions of – 40 mesh particles may explode if exposed to strong ignition sources.

Hazardous Products of Decomposition and/or Combustion: Carbon oxides.

NFPA Ratings:

HEALTH- 1

FLAMMABILITY- 0

REACTIVITY- 0

SECTION 6- ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Clean up spills in a manner that does not disperse dust into the air.

Cleanup: Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of a material from eyes, skin, and clothing.

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Regulatory Requirements: Spent (used) carbon should be disposed of in accordance with applicable laws. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Disposal: Dispose of virgin (unused) carbon (waste or spillage) in a facility permitted for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with applicable laws. Do not reuse empty bags. Dispose of in facility permitted for non-hazardous wastes. **DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.** All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

SECTION 7- HANDLING AND STORAGE

Handling: Avoid dispersion into air. Keep containers dry and closed. Follow good handling and housekeeping practices to minimize spills, generation of airborne dusts, and accumulation of dusts on exposed surfaces. Use with adequate exhaust ventilation to draw dust away from workers' breathing zones. Prevent or minimize exposures to dusts by using appropriate respirators, gloves and eye protection. Wash exposed skin areas thoroughly with soap and water. Use caution when pouring, using pneumatic transport, swirling, etc. as this material can become electrostatically charged and present a dust explosion hazard.

Storage: Avoid spilling material so as to avoid creating a dust suspension. Store at ambient atmospheric conditions. Product should be stored in a closed dry container. Maintain good housekeeping procedures. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

Empty Containers: Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8-PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: If use conditions generate dust levels above the TLV / PEL, wear a NIOSH-approved particulate respirator or a NIOSH-approved cartridge respirator fitted with dust filters.

Skin Protection: Wear appropriate dust resistant clothing and gloves.

Eye Protection: Safety glasses with side shields. If eye contact or dusty conditions are likely, wear dust tight goggles.

Ventilation Protection: Provide ventilation if necessary to minimize exposure. General ventilation is usually acceptable, but local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Other Protection: Safety showers, with quick opening valves which stay open, and eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water,

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should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

Exposure Limits:

Exposure limits have not been established for this material. However, the following are widely accepted limits for exposure to otherwise nontoxic particulates:

	OSHA PEL, 8 hr TWA mg/m ³	ACGIH TLV, 8 hr TWA mg/m ³
Particulates Not Otherwise Regulated (PNOR)	15 (total) 5 (respirable)	--- ---
Particulates Not Otherwise Classified (PNOC)	---	10 (inhalable) 3 (respirable)

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable **Melting Point:** Not applicable

Specific Gravity: 1.8 – 2.1 **Solubility in Water:** Insoluble

Volatile Percentage: Nil **pH:** Not determined

SECTION 10- STABILITY AND REACTIVITY

Stability: This product is considered stable under the specified conditions of storage, shipment and use.

Incompatibilities: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Hazardous decomposition will produce carbon oxides.

Conditions to Avoid: Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. Moist air will reduce the operating life.

SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation – Acute: Inhalation of carbon dust is mildly irritating to the lungs and can immediately give rise to an increased mucociliary transport and airway resistance mediated by the vagus.

Inhalation LC50 (Rat) > 64.4 mg / l.

Inhalation – Chronic: There are no known chronic inhalation effects.

Skin Contact – Acute: Skin contact is expected to be slightly irritating. The primary skin irritation index (rabbit) is 0.

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Skin Contact – Chronic: There are no known chronic dermal effects.

Eye Contact – Acute: Eye contact can cause conjunctivitis, epithelial hyperplasia of the cornea, as well as eczematous inflammation of the eyelids.

Ingestion – Acute: Activated carbon is practically nontoxic. The probable oral lethal dose (human) is greater than 1 5g/kg; more than one quart (2.2 lbs) for a 150 lb person.

Ingestion – Chronic: There are no known chronic ingestion effects.

Carcinogenicity/Mutagenicity: There are no known carcinogenic/mutagenic effects.

Reproductive Effects: There are no known reproductive effects.

Neurotoxicity: There are no known neurotoxic effects.

Other Effects: No other effects of carbon are known.

Target Organs: Target organs include the respiratory system and the cardiovascular system.

SECTION 12– ECOLOGICAL INFORMATION

The material, in its original state, is not harmful to the environment.

SECTION 13– DISPOSAL CONSIDERATIONS

Spill/Leak Procedures: Clean spills in a manner that does not disperse dust into the air, preferably a wet-down procedure or vacuum.

Cleanup: If material is not contaminated, spilled media can be re-bagged. Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal.

Regulatory Requirements: Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and regulations. NOTE: State and local regulations may be more stringent than federal regulations.

Disposal: Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Warning: Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.

SECTION 14– TRANSPORTATION INFORMATION

Domestic Transportation: This material is not a hazardous material for domestic transportation purposes.

International Transportation: This material is not a dangerous good for international transportation purposes.

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SECTION 15- REGULATORY INFORMATION

OSHA Hazard Communication Standard: Irritant

CERCLA Section 103: No RQ: None

SARA Section 302: No SARA Section 304:

No SARA Section 313: No SARA Hazard

Categories, Sections 311/312:

Acute: Yes

Chronic: No

Fire: No

Reactive: No

Sudden Pressure Release: No

OSHA Process Safety Standard: No

California Proposition 65: Not listed

TSCA: The ingredients of this product are on the TSCA Inventory List.

SECTION 16- OTHER INFORMATION

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

Revision Indicator: 18 March 2010, Revised Section 15

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier MetalRx Leaf Media		[WHMIS Classification] Not controlled	
Product Use Adsorbent, filtra ion media			
Manufacturer's Name Contech Construction Products Inc.		Supplier's Name Contech Construction Products Inc.	
Street Address 9025 Centre Pointe Dr. Suite 400		Street Address 9025 Centre Pointe Dr. Suite 400	
City West Chester	State OH	City West Chester	State OH
Postal Code 45069	Emergency Telephone 1-800-338-1122	Postal Code 45069	Emergency Telephone 1-800-338-1122
Date MSDS Prepared 06/04/2010	MSDS Prepared By Jia Ma	Phone Number 503-408-5268	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
Earth-Wise Certified Compost	100	N/A	Unknown	Unknown

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
Emergency Overview					
WHMIS Symbols: Not controlled					
Potential Health Effects					
Swallowing is unlikely under normal conditions. If so, it may cause abdominal discomfort and increase the risk of gastro-intestinal infections. The dust may be irritating to the eyes resulting in redness and watering, or eye infection. Skin contact with the product and its dusts may result in skin irritation. Inhalation of dusts may irritate the nose, throat and lungs, and aggravate pre-existing conditions such as asthma and bronchitis. Excessive inhalation over long period may cause harmful coughing and irritation; use mask suitable for nuisance dust.					

SECTION 4 — FIRST AID MEASURES

Skin Contact: Wash skin thoroughly with mild soap and water.
Eye Contact: Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician. Do not scrub, since the abrasion may cause irritation.
Inhalation: If overcome by high dust concentration, remove to a ventilated area.
Ingestion: Give water to drink. Seek medical attention if any abdominal symptoms.

SAMPLE FORMAT PROVIDED BY THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA

57M6 (6/99)

Please continue on reverse side



SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Granules, pellets	Odor and Appearance Earthy/Brown granules	Odor Threshold (ppm)
Specific Gravity >1 (granules)	Vapor Density (air = 1) N/A	Vapor Pressure (mmHg) N/A
Evaporation Rate N/A	Boiling Point (°C) N/A	Freezing Point (°C) N/A
pH 5-9 (Dissolved in water)	Coefficient of Water/Oil Distribution N/A	[Solubility in Water] Negligible

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones?
Reactivity, and under what conditions?	
Not available.	
Hazardous Decomposition Products	
Not available.	

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	
None	
Effects of chronic exposure	
Inhalation of high concentrations of inert nuisance particulates could result in mild irritation of the respiratory tract.	
Skin contact and eye contact may cause irritation through mechanical abrasion.	
Irritancy of Product	
Skin sensitization	Respiratory sensitization
Carcinogenicity-IARC: No..	Carcinogenicity - ACGIH
Reproductive toxicity	Teratogenicity
Embrototoxicity	Mutagenicity
Name of synergistic products/effects	

SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity]

No effects are tested from this insoluble product.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

Recycle if possible. This product contains organic leaves and does not require special disposal methods. Dispose of waste in accordance with federal, state, or local regulations.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information			
			PIN
TDG	Not regulated	[DOT]	Not regulated
[IMO]	Not regulated	[CAO]	Not regulated

SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] <i>Not controlled</i>	[OSHA]
[SERA]	[TSCA] This substance and all the ingredients of this product are on the Chemical Substances Inventory of the Toxic Substances Control Act (USA). The presence on these lists does not require any legal reporting.
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.</i>	

SECTION 16 — OTHER INFORMATION

National Fire Protection Agency (NFPA) codes – (health, flammability, reactivity): 1, 0, 0
Hazardous Material Information System (HMIS) – (health, flammability, reactivity): 1, 0, 0

Material Safety Data Sheet – Perlite

I. Product Identification

Trade Name (as labeled) Supreme Perlite (Expanded)

Manufacturers Name Supreme Perlite Company

Website & Email: www.perlite.com
info@perlite.com

Address: 4600 N. Suttle Rd.
 Portland, OR 97217

Phone Number: 503-286-4333

Date Prepared or Revised: April 1, 2010

II. Product Ingredients

Ingredient Name	CAS Number	%	PEL	TLV(total)
Perlite	93763-70-3	100	15 mg/M3	10mg/M3

A mineral composed of sodium potassium aluminum silicate of variable composition.

Perlite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC) by ACGIH).

HMIS Code: Health – 0, Fire – 0, Reactivity – 0, Personal Protection – X.

Alpha-Cristobalite & Tridymite: Less than 0.1%

Alpha Quartz: <0.1% below detectable limits

III. Physical Properties

Vapor Density (air=1)	N/A	Melting point or range. °F	2000+
Specific Gravity	2.35	Boiling point or range. °F	N/A
Solubility in Water	<1%	Evaporation rate (butyl acetate = 1)	N/A
Vapor Pressure (mmHg @ 20°C)	N/A		

Appearance and odor: White to off white granules, no odor.

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust or mist)

<http://www.perlite.com/MSDS-spc1.htm>

1/31/2012

Visual only (dust). No gas, vapors, or mist emitted.

-----IV. Fire and Explosion-----

Flash Point, °F (give method) Perlite is a fully oxidized, non-flammable mineral. It is noncombustible and non-flammable.

Auto ignition temp., °F N/A

Flammable limits in air, Vol. % N/A lower (LEL) N/A upper (UEL) N/A

Fire extinguishing materials: N/A

_____ water spray _____ carbon dioxide _____ other

_____ foam _____ dry chemical

Special fire fighting procedures: N/A

Usual fire & explosion hazards: N/A

-----V. Health Hazard Information-----

SYMPTOMS OF EXPOSURE for each potential route of exposure

Inhaled: Coughing

Contact with skin or eyes: Possible eye irritation from dust particles; wear eye protection.

Absorbed through skin: N/A

Swallowed: N/A

HEALTH EFFECTS OR RISKS FROM EXPOSURE.

Acute: None

Chronic: Excessive inhalation over long period may cause harmful irritation; use mask suitable for nuisance dust.

Target Organ: None

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Attempt to wash out with clear water; if unable, have particle removed by doctor.

Skin Contact: None

Inhaled: Remove affected individual from dusty area to area with clean air.

<http://www.perlite.com/MSDS-spc1.htm>

1/31/2012

Swallowed: None

SUSPECTED CANCER AGENT?

No: This product's ingredients are not found in below lists.

YES: **Federal OSHA** **NTP** **IARC**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Any respiratory illnesses, which a nuisance dust may aggravate.

-----**VI Reactivity Data**-----

Stability: **Stable** **Unstable**

Incompatibility: Hydrofluoric Acid

Hazardous Polymerization: **May occur** **Will not occur**

Conditions to avoid: None in designed use.

Hazardous Decomposition Products: May react with hydrofluoric acid form toxic gas.

-----**VII. Spill, Leak & Disposal Procedures**-----

Spill response procedures (include employee protection measures):

Vacuum clean or sweep material; Use respirators suitable for nuisance dust & eye protection.

Preparing wastes for disposal (container types, neutralization, etc.):

Dispose in bulk or containers according to local dump requirements. No special treatment required.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

-----**VIII. SPECIAL HANDLING INFORMATION**-----

Ventilation and engineering controls:

Maintain dust level below TLV.

Respiratory protection (type):

Masks suitable for nuisance dust.

Eye protection (type):

Protective goggles.

<http://www.perlite.com/MSDS-spc1.htm>

1/31/2012

Gloves (specify material):

Not required.

Work practices, hygienic practices:

Use good housekeeping to avoid transient dust.

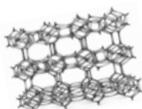
Other handling and storage requirements:

Use good housekeeping to avoid transient dust.

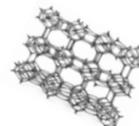
Protective measures during maintenance of contaminated equipment:

No special equipment, other than respirators and goggles.

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation with respect to such information is intended or given, and it is the responsibility of the user to comply with all applicable federal, state and local laws and regulations



MATERIAL SAFETY DATA SHEET



An explanation of terms used may be found in OSHA
29 CFR 191.1200 available from OSHA regional or area offices.

October 1, 2006

1. PRODUCT IDENTIFICATION

PRODUCT: St. Cloud Natural Clinoptilolite Zeolite	CAS No. 12173-10-3
CHEMICAL NAME: Potassium-calcium-magnesium-aluminosilicate	SYNONYMS: Clinoptilolite
EMPIRICAL FORMULA: (K,Ca,Mg) 2O-AL ₂ O ₃ -10SiO ₂ -6H ₂ O	

2. COMPANY IDENTIFICATION

COMPANY NAME: ST. CLOUD MINING COMPANY		
MAILING ADDRESS: P.O. Box 1670 - Truth or Consequences, New Mexico 87901, U.S.A.		
PHYSICAL ADDRESS: Winston Mill Site - Winston, New Mexico 87943, U.S.A.		
PHONE NUMBER: 505-743-5215	FAX NUMBER: 505-743-3333	WEBSITE: www.stcloudmining.com

3. HAZARDOUS INGREDIENTS AND HEALTH HAZARD DATA

HAZARDOUS INGREDIENTS: May Contain 0.07-0.10% Free Silica.	ROUTES OF ENTRY: Inhalation		
HEALTH HAZARDS: Granular powder, airborne dust particles are irritating to respiratory tract. Contact with eyes and skin may cause irritation. May be harmful if inhaled. Clinoptilolite with a particle size in the respirable range was tested for carcinogenicity in rats by intratracheal instillation. No significant increase in the incidence of tumors was found. Hazard Symbols for this product: Xn.			
HAZARDOUS COMPONENTS: Clinoptilolite zeolite / potassium, calcium, sodium, aluminosilicate, hydrated (a) Percent by weight: 100%			
CAS #: 12173-10-3	EINECS #: Not found	Hazard Symbol: Xn	Risk Phrases: R 20, 36/37/38
CARCINOGENICITY: NTP? No.	IARC Monographs? No.	OSHA Regulated? No.	
SIGNS & SYMPTOMS OF EXPOSURE: Coughing, irritation of respiratory tract.			

4. FIRST AID MEASURES

SWALLOWING: If ingested in large quantities, contact physician for permission to induce vomiting.	
SKIN CONTACT: Rinse with water if irritation ensues.	INHALATION: Remove the person to fresh air, rinse mouth and nasal passages with fresh water. Seek medical attention if irritation persists.
EYE CONTACT: Check for and remove contact lenses. Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.	
NOTES TO PHYSICIAN: St. Cloud Natural Zeolite has no additives or materials that require special treatment. However some products of St. Cloud Natural Zeolite are treated to enhance their use for special applications. Should a specialty product with additives to St. Cloud Natural Zeolite, a separate MSDS is available from the supplier.	

5. PHYSICAL & CHEMICAL CHARACTERISTICS

COLOR: White, to off white with dark specs	BOILING POINT: Not applicable
ODOR: None	FREEZING POINT: Not applicable
MELTING POINT: 1800 F	VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable	SPECIFIC GRAVITY: 2.2 - 2.4
SOLUBILITY IN WATER: 0	EVAPORATION RATE: Not applicable

6. FIRE AND EXPLOSION DATA

FLASH POINT: Not applicable	FLAMMABLE LIMITS: Not applicable
LEL: Not applicable	UEL: Not applicable
EXTINGUISHING MEDIA: Not applicable	
SPECIAL FIRE FIGHTING PROCEDURES: Non combustible	
UNUSUAL FIRE AND EXPLOSION HAZARDS: None	

7. REACTIVITY DATA

STABILITY: Stable	CONDITIONS TO AVOID: Not applicable
INCOMPATIBILITY (Materials to avoid): None	
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: Not applicable

8. SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Physical clean up is required only to prevent sediment to surface water courses, depending upon the particle size of the product. St. Cloud Natural Zeolite will not react or release any harmful substance to the environment.	
WASTE DISPOSAL METHOD: Spills of St. Cloud Natural Zeolite should be cleaned up in a manner that minimizes the generation of dust as a potential nuisance, or may be dispersed of in any garden areas, lawn or landfill.	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid breathing dust, may irritate the respiratory tract	
OTHER PRECAUTIONS: None	

9. EXPOSURE CONTROL MEASURES

RESPIRATORY PROTECTION: Wear OSHA approved dust respirators to avoid nuisance dust and possible irritation

VENTILATION	LOCAL EXHAUST:	Exhaust ventilation is recommended for operations to avoid nuisance dust and possible irritation.
	MECHANICAL (general):	Not applicable
	SPECIAL:	Not applicable
	OTHER:	Not applicable

EYE PROTECTION: Safety glasses or goggles should be worn to prevent dust from entering eyes.

PROTECTIVE GLOVES: Optional. May cause drying of skin with prolonged contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Dust Respirator

10. ECOLOGICAL CONSIDERATIONS

WATERFOWL TOXICITY: Not Applicable

AQUATIC TOXICITY: Not Applicable

FOOD CHAIN CONCENTRATION POTENTIAL: Not Applicable

BIOCHEMICAL OXYGEN DEMAND: Not Applicable

ATMOSPHERIC: Contain no ozone depleting substances.

11. TRANSPORTATION INFORMATION

Proper Shipping Name: Non-Hazardous for Transport	IATA Hazard Class/Packaging Group: Not Regulated
DOT Hazard Class/Packaging Group: Not Regulated	IMDG Hazard Class: Not Regulated
Reference: Not Applicable	RID/ADR Dangerous Goods Code: Not Regulated
UN/NA Identification Number: None	UN TDG Class/Packaging Group: Not Regulated
Label: None Required	Hazard Identification Number (HIN): None
Hazard Symbol: None	

12. REGULATORY INFORMATION

CERCLA: None.

SARA Title III.313 Reportable Ingredients: None

California Prop 65: There are no chemicals present in product known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations): This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: Not Controlled.

IDL (Canadian Ingredient Disclosure List): Components of this product identified by CAS number and listed on the Canadian IDL are shown in Section 3.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substance List): Components of this product identified by CAS number are not listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notifications (NSN) regulations.

EINECS (European Inventory of Existing Commercial Chemical Substances): Components of this product identified by CAS numbers are on the European inventory of existing Commercial Chemical Substances unless indicated as "not found".

WGK Water Quality Index: nwg **VbK Index:** not applicable

HMIS HAZARD RATINGS	HEALTH	1	Definitions: *	= Chronic Health Hazard	2 = MODERATE
	FLAMMABILITY	0		0 = INSIGNIFICANT	3 = HIGH
	PHYSICAL HAZARD	0		1 = SLIGHT	4 = EXTREME
	PERSONAL PROTECTIVE EQUIPMENT	E		E	Safety Glasses, Gloves, Dust Respirator

It is recommended that all recipients of this MSDS become familiar with and understand any hazards associated with this product. This information should then be made available to employees and customers who may come in contact with this material.