



## Material Safety Data Sheet

Date Prepared: 05/22/2014

Supersedes: 09/03/2013

### Section 1 – Product & Company Identification

<b>Product Name:</b>	Zeolite (Chabazite, Clinoptilolite)		
<b>Part Numbers:</b>	Winston Clino (NM-Ca), Ash Meadows Clino (NV-Na), Rome Mordenite Bowie Chab: (AZUB), (AZLB-Na) & (AZLB-Ca)		
<b>General Uses:</b>	Water Filtration, Sorbent, Odor Control/Desiccant, Animal Feed Additive		
<b>Product Description:</b>	White, Off-White, or Tan Granules & Powders w/Dark Specs		
<b>Manufacturer's Name:</b>	<b>St. Cloud Mining Company</b>	<b>OR</b>	<b>SCM - Ash Meadows LLC</b>
<b>Street Address:</b>	761 St. Cloud Rd.		E. Spring Meadows Rd.
<b>P.O. Box:</b>	P.O. Box 196		HCR 70-Box 7006
<b>City, State, Zip:</b>	Winston, NM 87943		Amargosa Valley, NV 89020
<b>Phone:</b>	<b>575-743-5215</b>		<b>Phone/Fax: 775-372-5524</b>
<b>Fax:</b>	<b>575-743-3333</b>		<b>Country: U.S.A.</b>

### Section 2 – Hazardous Ingredients

<b>Hazardous Ingredients:</b>	May contain greater than 0.10% free silica
<b>Hazardous Components:</b>	Clinoptilolite Zeolite/potassium, calcium, sodium, aluminosilicate, hydrated (a)
<b>Percent by Weight:</b>	100%
<b>CAS #:</b>	12173-10-3 (Clinoptilolite), 1318-02-1 (Chabazite)
<b>EINECS #:</b>	Not found
<b>Hazard Symbol:</b>	Xn
<b>Risk Phrases:</b>	R20, 36/37/38

(a) Clinoptilolite is not listed on the Canadian DSL or NDSL.

### Section 3 – Hazards Identification

<b>Carcinogenicity:</b>	<u>NTP? No</u>	<u>IARC Monographs? No</u>	<u>OSHA Regulated? No</u>
	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.		
<b>Eye Contact:</b>	May cause irritation.		
<b>Skin Contact:</b>	May cause irritation.		
<b>Inhalation:</b>	Causes irritation.		
<b>Ingestion:</b>	No hazards known or suspected.		
<b>Chronic Hazards:</b>	No known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen. Does <b>not</b> contain asbestos or fibrous zeolite minerals. Crystalline silica was not detected by X-Ray Defraction Analysis, but may be present above the notification level of 0.10%. (Crystalline silica is considered a hazard by inhalation. During October 1996, IARC reviewed the literature for polymorphs of crystalline silica and determined that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobolite from occupational sources.)		

### Section 4 – First Aid Measures

<b>Ingestion:</b>	If ingested in large quantities, contact physician for permission to induce vomiting.
<b>Inhalation:</b>	Move subject to fresh air. Rinse mouth & nasal passages with fresh water. If irritation persists, seek medical attention.
<b>Skin Contact:</b>	Rinse with water. If irritation persists, seek medical attention.
<b>Eye Contact:</b>	Remove contact lenses. Flush eyes with water for 15 minutes. If irritation persists, seek medical attention.
<b>Notes to Physician:</b>	St. Cloud Natural Zeolite has no additives or materials that require special treatment. Some St. Cloud products, however, <u>are</u> treated to enhance their use for special applications. A separate MSDS is available from the supplier for additives to the St. Cloud Natural Zeolite.

### Section 5 – Fire Fighting Measures

<b>General Hazards:</b>	Product is not considered flammable or combustible.		
<b>Flash Point (°F):</b>	N/A	<b>Flammable Limits (Vapor in Air, Vol. %):</b>	N/A
<b>Fire Extinguishing Media:</b>	N/A	<b>Unusual Fire &amp; Explosion Hazards:</b>	None

### Section 6 – Accidental Release Measures

<b>Environmental Hazards:</b>	No known adverse effects.
<b>Spillage:</b>	Sweep, scoop, or vacuum discharged material.
<b>Waste Disposal Method:</b>	Landfill according to local, State & Federal regulations.

### Section 7 – Handling & Storage

<b>Precautions:</b>	Keep container closed when not in use. Protect containers from abuse; store in a cool, dry area. Keep out of reach of children.
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### Section 8 – Exposure Controls / Personal Protection

<b>OSHA Permissible Exposure Limit (or ACGIH):</b>	Values have not been established.
<b>Recommended Threshold Limit:</b>	Ceiling Limit = 15 mg/m <sup>3</sup> Total Dust 5 mg/m <sup>3</sup> Respirable Fraction
<b>Exposure Analysis Methods:</b>	Respirable Sampler or Midget Impinger see: <u>J. Am. Ind. Hyg. Assoc., 28:554 (1967)</u>
<b>Respiratory Protection:</b>	Use NIOSH approved dust mask or respirator where dust occurs. <i>Refer to 29 CFR 1910.134 or European Standard EN 149 for regulations.</i>
<b>Gloves:</b>	Plastic, rubber or cotton.
<b>Eye Protection:</b>	Safety glasses or chemical goggles. <i>Refer to 29 CFR 1910.133 or European Standard EN166.</i>
<b>Other Protective Equipment:</b>	N/A
<b>Personal Hygiene:</b>	Avoid breathing dust.
<b>Engineering Control:</b>	Use with adequate ventilation.

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### Section 9 – Physical & Chemical Properties

<b>Appearance &amp; Odor:</b>	Chabazite = Dry, tan granules & powders. Odorless. Clinoptilolite = Dry, white to off-white granules & powders with specs.
<b>Specific Gravity:</b>	Chabazite = N/A (Liquids Only), Clinoptilolite = 2.2 – 2.4
<b>Solubility in Water:</b>	Chabazite = Negligible, Clinoptilolite = 0
<b>Vapor Density:</b>	N/A
<b>Vapor Pressure:</b>	Chabazite = N/A (mm Hg at °F, Nonaqueous Liquids Only) Clinoptilolite = N/A
<b>Evaporation Rate:</b>	Chabazite = N/A (Butyl Acetate = 100, Nonaqueous Liquids Only) Clinoptilolite = N/A
<b>Solids Content:</b>	Chabazite = N/A (Solutions, Dispersions or Pastes Only) Clinoptilolite = N/A
<b>Melting Point:</b>	Chabazite = N/A, Clinoptilolite = 1800°F
<b>Boiling Point:</b>	Chabazite = N/A (°F, Nonaqueous Liquids Only), Clinoptilolite = N/A
<b>pH:</b>	Chabazite = N/A (Aqueous Liquids Only), Clinoptilolite = N/A

### Section 10 – Stability and Reactivity

<b>Stability:</b>	Stable	<b>Conditions to Avoid:</b>	N/A
<b>Incompatibility (Materials to Avoid):</b>	N/A	<b>Hazardous Decomposition Products:</b>	None
<b>NFPA Hazard Ratings:</b>	Health Hazard: 1 Reactivity: 0	Flammability Hazard: 0 Special Hazard: None	

### Section 11 – Toxicological Information

<b>Chabazite:</b>	CAS #1318-02-1	EINECS # (not found)	LC/LD50 - N/A
<b>Clinoptilolite:</b>	CAS #12173-10-3	EINECS # (not found)	LC/LD50 - N/A

### Section 12 – Ecological Information

No data available. None of the ingredients are classified as a Marine Pollutant.

### Section 13 – Disposal Considerations

Dispose of in accordance with Local, State and Federal Regulations. Product is classified as non-hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260-299" for complete waste disposal regulations. Consult your local, state or Federal Environmental Protection Agency before disposing of any chemicals. According to the European Waste Catalogue, waste codes are application-specific and should be assigned by the user based on the application for which the product is used.

### Section 14 – Transport Information

<b>DOT Shipping Name:</b>	Non-Hazardous for Transport	<b>IMDG Hazard Class:</b>	Not Regulated
<b>DOT Hazard Class:</b>	Not Regulated	<b>IATA Hazard Class:</b>	Not Regulated
<b>UN/NA ID No.:</b>	None	<b>RID/ADR Code:</b>	Not Regulated
<b>UN TDG Class:</b>	Not Regulated	<b>Label:</b>	None Required
<b>Hazard Id No. (HIN):</b>	None	<b>Hazard Symbols:</b>	None

### Section 15 – Regulatory Information

#### TSCA (U.S.A. – Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

#### SARA TITLE III (U.S.A. – Superfund Amendments & Reauthorization Act)

311/312 Hazard Categories-Immediate Health, 313 Reportable Ingredients-None

#### CERCLA (U.S.A. – Comprehensive Response Compensation & Liability Act)

None

#### California Prop 65, Safe Drinking Water & Toxic Enforcement Act of 1986

There are no chemicals present 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 Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Not controlled

#### IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

#### DSL/NDSL (Canadian Domestic Substances List / Non-Domestic Substances 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 Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

#### 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

### Section 16 – Other Information

**Notes & Full R-Phrase Text:** R20 Harmful by inhalation  
R36/37/38 Irritating to eyes, respiratory system and skin

**HMIS Hazard Ratings:** Health = 1 Flammability = 0  
Physical Hazard = 0 Personal Safety Equipment = E

*Definitions: \* = Chronic Health Hazard, 0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, E = Safety Glasses, Gloves, Dust Respirator*

**Revision Summary:** This MSDS has been revised as follows - Updated Format & Data

### Additional Contact Information

**Contact:** Daniel T. Eyde, Chief Technology Officer  
**Email:** [deyde@stcloudmining.com](mailto:deyde@stcloudmining.com)  
**Phone:** (520) 744-8845

**Contact:** Joseph P. McEnaney, Vice President-Sales  
**Email:** [jmcenaney@stcloudmining.com](mailto:jmcenaney@stcloudmining.com)  
**Phone:** (203) 761-1291

**URL:** <http://www.stcloudmining.com>

