



Part 1

Material Safety Data Sheet

Date Printed: 09/23/2011

Date Updated: 09/23/2011

Section 1 – Product & Company Information

Product Name: Purge Sinter Clinoptilolite (Zeolite)
Trade Name: ZS403H, Purge Sinter Clinoptilolite Zeolite
Chemical Name: Sodium, Potassium Aluminosilicate
CAS Registry No.: 12173-10-3
Empirical Formula: (K,Ca,Mg) 20-AL203-10SiO₂-6H₂O
DOT Hazard Class: N/A
DOT Shipping Name: N/A

Company: Vision USA
Street Address: 600 Deer Road, Suite 11
City, State, Zip, Country: Cherry Hill, NJ 08034 U.S.A.
Phone: 856-795-6199
Fax: 856-427-7940

Section 2 – Physical Data

Appearance & Odor: Dry, white to off-white granules & powders with dark specs. Odorless.
Specific Gravity: 2.2 – 2.4
Solubility in Water: 0
Vapor Density: N/A
Vapor Pressure: N/A
Evaporation Rate: N/A
Melting Point: 1800°F
Boiling Point: N/A
Freezing Point: N/A

Section 3 – Fire & Explosion Hazard Data

Flash Point (°F): N/A **Flammable Limits (Vapor in Air, Vol. %):** N/A
Fire Extinguishing Media: N/A **Unusual Fire & Explosion Hazards:** None

Section 4 – Reactivity Data

Stability: Stable **Conditions to Avoid:** N/A
Incompatibility (Materials to Avoid): N/A **Hazardous Decomposition Products:** None

Section 5 – Spill or Leak Procedures

Environmental Hazards: No known adverse effects.
Spillage: Sweep, scoop, or vacuum discharged material.

Waste Disposal Method: Landfill according to local, State & Federal regulations.

Section 6 – Health Hazard Data

Hazardous Ingredients: May contain greater than 0.10% free silica.
Hazardous Components: Clinoptilolite zeolite/potassium, calcium, sodium, aluminosilicate, hydrated (a)
Percent by Weight: 100%
Hazard Symbol: Xn
Risk Phrases: R20, 36/37/38
Routes of Entry: Inhalation.
Eye Contact: May cause irritation.
Skin Contact: May cause irritation.
Inhalation: Causes irritation.
Ingestion: No hazards known or suspected.
Carcinogenicity: NTP-No, IARC Monographs-No, OSHA Regulated-No
Symptoms of Exposure: Coughing/irritation of respiratory tract.

Section 7 – First Aid Measures

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

Section 8 – Special Protection Information

Respiratory Protection: Use NIOSH approved dust mask or respirator where dust occurs.
Gloves: Plastic, rubber or cotton.
Eye Protection: Safety glasses or chemical goggles.
Other Protective Equipment: N/A
Personal Hygiene: Avoid breathing dust.
Engineering Control: Use with adequate ventilation.

Section 9 – Substances for Which Standards Have Been Set

OSHA Permissible Exposure Limit (or ACGIH): Values have not been established.
Recommended Threshold Limit: Ceiling Limit = 15 mg/m³ Total Dust
5 mg/m³ Respirable Fraction
Exposure Analysis Methods: Respirable Sampler or Midget Impinger see:
[J.Am. Ind. Hyg. Assoc., 28:554 \(1967\)](#)



Part 2

Material Safety Data Sheet

Date Printed: 04/27/2011

Date Updated: 12/01/2009

Section 1 – Product & Company Information

Product Name: Purge Sinter Chabazite (Zeolite)
Trade Name: Purge Sinter ZC or ZS500A, ZC or ZS500H, ZC or ZS500RW, or Zeofume
Chemical Name: Hydrated & Anhydrous Sodium or Calcium Aluminosilicate Mineral
CAS Registry No.: 1318-02-1
DOT Hazard Class: N/A
DOT Shipping Name: N/A

Company: Vision USA
Street Address: 600 Deer Road, Suite 11
City, State, Zip, Country: Cherry Hill, NJ 08034 U.S.A.
Technical Phone: 856-795-6199
Fax: 856-427-7940

Section 2 – Physical Data

Appearance & Odor: Dry, tan granules & powders. Odorless.
Specific Gravity: N/A (Liquids Only)
Solubility in Water: Negligible
Vapor Pressure: N/A (mm Hg at °F, Nonaqueous Liquids Only)
Evaporation Rate: N/A (Butyl Acetate = 100, Nonaqueous Liquids Only)
Solids Content: N/A (Solutions, Dispersions or Pastes Only)
Boiling Point: N/A (°F, Nonaqueous Liquids Only)
pH: N/A (Aqueous Liquids Only)

Section 3 – Fire & Explosion Hazard Data

Flash Point (°F): N/A **Flammable Limits (Vapor in Air, Vol. %):** N/A
Fire Extinguishing Media: N/A **Unusual Fire & Explosion Hazards:** None

Section 4 – Reactivity Data

Stability: Stable.
Conditions to Avoid: In their fresh, unused, activated condition chabazite products are not flammable. When exposed to water, however, the anhydrous products get hot. When first wetted, these products can heat to the boiling point of water. Flooding will reduce the temperature to safe limits. Minimize exposure to the activated granules or powder, which can (under certain conditions) cause a skin rash or minor burn.
Materials to Avoid (Incompatibility): N/A
Hazardous Decomposition Products: N/A
NFPA Hazard Ratings: Health Hazard: 1 Flammability Hazard: 0
Reactivity: 0 Special Hazard: None

Section 5 – Spill or Leak Procedures

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

Section 6 – Health Hazard Data

Eye Contact: May cause irritation.
Skin Contact: May cause irritation. If a rash or burn-like irritation occurs, wash & cool the affected area. (Treat as a minor burn.)
Inhalation: Causes irritation.
Ingestion: No hazards known or suspected.
Chronic Hazards: No known chronic hazards. Not listed by OSHA, NTP or IARC as a carcinogen. Does **not** 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 7 – Special Protection Information

Respiratory Protection: Use NIOSH approved dust mask or respirator where dust occurs.
Gloves: Plastic, rubber or cotton.
Eye Protection: Safety glasses or chemical goggles.
Other Protective Equipment: N/A
Personal Hygiene: Avoid breathing dust.
Engineering Control: Use with adequate ventilation.

Section 8 – Substances for Which Standards Have Been Set

OSHA Permissible Exposure Limit (or ACGIH): Values have not been established.
Recommended Threshold Limit: Ceiling Limit = 15 mg/m³ Total Dust
5 mg/m³ Respirable Fraction
Exposure Analysis Methods: Respirable Sampler or Midget Impinger see: [J. Am. Ind. Hyg. Assoc., 28:554 \(1967\)](#)