

# **SAFETY DATA SHEET**

### **SECTION 1 – IDENTIFICATION**

1.1 Product Identifier

Product number and name 99089 VULTURE CREEK CLINO 1-2mm, 50kg

Product type Natural molecular sieve

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Filtration, ion exchange

Uses advised against No specific uses advised against.

Avoid eye contact and/or inhalation.

1.3 Details of Supplier of Safety Data Sheet

Processed by Pratley Perlite Mining Company (Proprietary) Ltd

14 Jackson Street, Factoria, Krugersdorp, 1745

South Africa

Tel: +27-11-955-2190 Fax: +27-11-955-3918

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Supplied in South Africa by Pratley (Proprietary) Ltd

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exports@pratley.com www.pratley.com

# 1.4 Emergency Telephone Number

South Africa +27-11-955-2190 during office hours

10117 All emergencies

+27-21-689-5227 Poisons Information Centre

Europe 112 All emergencies

For detailed poison information, the national poison centre, if available, should be contacted.

United Kingdom 999 All emergencies

111 (NHS, England, NHS 24, Scotland or NHS Direct, Wales),

0808 808 8000 (Lifeline, N. Ireland)

01 809 2166 (National Poison Information Centre, Republic of Ireland)

Australia 000 All emergencies

13 11 26 NSW Poison Information Centre

New Zealand 111 All emergencies

0800 764 766 National Poisons Centre (poisons@otago.ac.nz)

Americas 911 All emergencies

1-800-222-1222 Poisons Help (PoisonHelp.org)

### **SECTION 2 – HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

### 2.1.1 Classification

NOT CLASSIFIED AS HAZARDOUS.

## 2.1.2 Additional Information

None known.

### 2.2 Label Elements

No Precautionary Statements are required on the label.

## 2.3 Other Hazards

Nuisance dust. Do not breathe dust. May cause mild skin, eye and respiratory system irritation. Wash thoroughly after handling. If irritation persists, seek medical advice.

## **SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

## 3.2 Substances

Hazardous Ingredients	% [weight]	CAS No. EC No. Index No.	SCL, M-Factors, ATE	Classification	H / EUH Code(s)
Clinoptilolite	>90%	12173-10-3 687-562-6	-	Not hazardous	-

This material would also fall under CAS No. 1318-02-1 being a natural zeolite. The classification for this material is the same as for CAS No. 12173-10-3.

### **SECTION 4 – FIRST AID MEASURES**

## 4.1 Description of First Aid Measures

**SKIN** Wash contaminated skin with soap and water. Remove contaminated clothing and shoes and wash before reuse. If irritation persist, seek medical attention.

**EYE** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists.

**INHALATION** Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. if unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

**INGESTION** Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person.

## 4.2 Most important symptoms and effects, both acute and delayed

SKIN No known significant effect or critical hazards.

EYE No known significant effect or critical hazards. May cause mild irritation.

INHALATION No known significant effect or critical hazards. May cause respiratory irritation.

INGESTION No known significant effect or critical hazards.

#### **SECTION 5 – FIRE FIGHTING MEASURES**

## 5.1 Extinguishing Media

SUITABLE Water fog, foam, extinguishing powder, or carbon dioxide.

NOT SUITABLE None known.

# 5.2 Special Hazards arising from the Substance or Mixture

HAZARDS FROM THE SUBSTANCE / MIXTURE Clinoptilolite (zeolite) is non-hazardous and may be allowed to enter a waterway, sewer or drain.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS None known.

#### 5.3 Advice for Firefighters

SPECIAL PRECAUTIONS FOR FIREFIGHTERS Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Fire-fighters should wear appropriate protective equipment to prevent inhalation of dust particles.

#### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment, and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

## 6.1.1 For non-emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

**SKIN** General purpose non-permeable gloves and overalls.

FACE / EYES Safety goggles.

**CLOTHING** No special requirements. Wash clothing thoroughly if contaminated.

**VENTILATION** If ventilation is poor use a OHSA approved dust mask or self-contained breathing apparatus.

## 6.1.2 For emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

**SKIN** General purpose non-permeable gloves and overalls.

## FACE / EYES Safety goggles.

**CLOTHING** No special requirements. Wash clothing thoroughly if contaminated.

**VENTILATION** If ventilation is poor use an OHSA approved dust mask or self-contained breathing apparatus.

#### **6.2 Environmental Precautions**

Clinoptilolite (without other residues) is not a hazardous waste and may be combined with soil or drained to the sewage.

### 6.3 Method and material for containment and cleaning up

## 6.3.1 Containment procedure

Sweep or vacuum up in such a way as to avoid dust.

## 6.3.2 Clean-up procedure

Dispose of in accordance with local regulations.

## 6.3.3 Additional Information

See SECTION 13 for disposal considerations.

#### 6.4 Reference to other sections

See SECTION 13 for disposal considerations.

## **SECTION 7 – HANDLING AND STORAGE**

### 7.1 Precautions for Safe handling

### 7.1.1 Recommendations for safe handling and storage

Do not eat, drink or smoke where this material is stored. Keep in the original container and keep tightly closed when not in use.

### 7.1.2 Advice on general occupational hygiene

Put on appropriate personal protective equipment (see SECTION 8). Do not eat, drink, or smoke when working with this material. Wash hands and face before eating, drinking, or smoking. Do not get in eyes. Avoid skin contact as much as possible.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in the original container protected from sources of ignition or direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabelled containers.

Incompatible Materials: Strong oxidizing agents, concentrated acids Packaging Material: Use original container.

## 7.3 Specific end use(s)

Not applicable.

## SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

#### **8.1 Control Parameters**

The DNEL (Derived No-Effect Level) for humans by inhalation, ingestion and dermal routes of exposure and the PNEC (Predicted No-Effect Concentration) for environmental exposure given below are not intended to be directly used for setting workplace or general population exposure limits. Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health based-OEL for that chemical substance. Further,

although DNELs (and PNEC's) are an indication of setting risk measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed government OELs.

No DNEL or PNEC information is available for Clinoptilolite / Zeolite.

Ingredient	Route of exposure	Exposure Limit		
(CAS No,)	Route of exposure	ACGIH TLV	OSHA PEL	
Nuisance dust	Inhalation	10mg/m³ (inhalable particles)	5mg/m³ (respirable fraction) 15mg/m³ (total dust)	

## **8.2 Exposure Controls**

#### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Provide local exhaust ventilation or other engineering controls if the potential for nuisance dust generation exists. If ventilation is poor use a self-contained breathing apparatus.

#### 8.2.2 Personal Protection

**Skin** General purpose non-permeable gloves and overalls.

**Face / Eye** Avoid eye contact. Do not touch or rub eyes after contact with product. Wash hands thoroughly with soap and water first.

**Inhalation** Use an OHSA approved dust mask and work in a well-ventilated area.

**Ingestion** Wash hands thoroughly with soap and water after using this product. Keep away from children.

Thermal None required when used as instructed.

Other Always wash hands with soap and water after use.

#### 8.2.3 Environmental Protection

Clinoptilolite (without other residues) is not a hazardous waste and may be combined with soil or drained to the sewage.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 information on physical and chemical properties

Physical State Small particles or chips

Colour Beige / Pale green / Pale Pink

Odour Not determined

Melting point / Freezing point (°C) No data available.

Boiling point, initial and range (°C) No data available.

Flammability Not flammable.

Explosion / Flammability limits No data available.

Flash point (°C), closed cup No data available.

Auto-ignition temperature (°C) No data available.

Decomposition temperature (°C) No data available.

pH No data available.

Kinematic Viscosity (at 23°C) Not applicable.

Solubility Insoluble.

Partition co-efficient: n-octanol / water No data available.

Vapour pressure No data available.

Density and/or Relative density (at 23°C) 1.9 kg/L (0.95 kg/L as packed)

Relative Vapour density No data available.

Particle characteristics >90% between 1mm and 2.38mm (18-8 mesh) by sieve analysis

≤0.3% under 149µ (100 mesh) by sieve analysis ≤1% above 2.38mm (8 mesh) by sieve analysis

#### 9.2 Other information

9.2.1 Information with regards to physical Hazard Classes

No additional information available.

## 9.2.2 Other Safety Characteristics

No additional information available.

### **SECTION 10 – STABILITY AND REACTIVITY**

## 10.1 Reactivity

Unlikely to react under normal conditions of storage and use.

## 10.2 Chemical Stability

Stable under recommended storage conditions.

#### 10.3 Possibility of Hazardous Reactions

Hazardous reactions are unlikely during normal conditions of storage and usage.

#### 10.4 Conditions to Avoid

None known.

#### **10.5** Incompatible Materials

Reactive or incompatible with the following materials: Strong oxidizing agents, concentrated acids

## **10.6 Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### **SECTION 11 – TOXOLOGICAL INFORMATION**

### 11.1 Information on Hazard Classes

No information available as ingredients not classified as hazardous. Based on human experience the material is a mild irritant.

## 11.2 Information on Other Hazards

## 11.2.1 Endocrine Disrupting Properties

Not listed as an endocrine disruptor on EDL List I (identified) List II (under evaluation for) or List III (has ED properties).

### 11.2.2 Other Information

No additional information available.

## **SECTION 12 – ECOLOGICAL INFORMATION**

### 12.1 Toxicity

Not classified as hazardous.

Please see Section 8.1 for PNECs on individual ingredients.

### 12.2 Persistence and Biodegradability

No data available.

### 12.3 Bioaccumulative Potential

No data available.

### 12.4 Mobility in Soil

Not readily mobile in soil.

#### 12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out.

## 12.6 Endocrine Disrupting Properties

No data available. Not listed as an endocrine disruptor.

### 12.7 Other Adverse Effects

None known.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

### 13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

Contain and dispose of in accordance with local regulations.

**EWC 01 04 08** WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS: wastes from physical and chemical processing of non-metalliferous minerals; waste gravel and crushed rocks other than those mentioned in 01 04 07

# **SECTION 14 – TRANSPORT INFORMATION**

Since this product is NOT CLASSIFIED AS HAZARDOUS, there is no applicable UN Number (14.1), Proper Shipping Name (14.2), Transport Hazard Class (14.3) or Packing Group (14.4).

## 14.5 Environmental Hazards

Not classified as hazardous to the environment.

## 14.6 Special Precautions for User

None known.

### 14.7 Maritime Transport in Bulk According to IMO instruments

Not applicable.

## **SECTION 15 – REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**REACH EC1907/2006 Annex XIII, XIV, XVII** The substance is not listed / not subject to restrictions.

International Agency for Research on Cancer (IARC) The substance is not listed / not subject to restrictions.

Australia Inventory of Industrial Chemicals (AIIC) The substance(s) is listed as 1318-02-1.

New Zealand Inventory (NZIoC) The substance(s) is listed as 1318-02-1.

Canada Domestic Substances List (DSL) / Non-Domestic Substance List (NDSL) This substance is listed as 1318-02-1 on the DSL.

**United States Inventory (TSCA 8b)** The substance(s) in this product are not listed / not subject to restrictions. **California Proposition 65** The substance is not listed / not subject to restrictions.

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112® of the Clean Air Act (CAA) The substance is not listed / not subject to restrictions.

## 15.2 Chemical Safety Assessment

Not yet done.

### **SECTION 16 – OTHER INFORMATION**

Changes from previous version:

Date	Section	Changes	
changed	Section		
2024.11.20		Initial document	

### Abbreviations used:

oreviacions a	564.
ADN	European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS No.	Chemical Abstract Services Number
DNEL	Derived no-effect level
EC3	Effective concentration required to produce a three-fold increase in the stimulation index
EC No.	European Community Number
ECHA	European Chemicals Agency
EWC	European Waste Code
GCL	Generic concentration limit
GLP	Good Laboratory Practice
HSNO	Hazardous Substances and New Organisms Act
IATA	International Air Transport Association
IBC	International Bulk Container
ICAO	International Civil Aviation Authority
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization

**LD50** Lethal dose to 50% of test population

**LLNA** Local lymph node assay

LT Long term

mg/kg bw milligrams per kilogram of body weight
mg/kg dwt milligrams per kilogram dry weight

NOAEL No observed adverse effect level

**OECD** Organisation for Economic Co-operation and Development

**OEL** Occupational Exposure Limit

PREC Predicted no-effect concentration

RID European Agreements Concerning the International Carriage of Dangerous Goods by Rail

**SCBA** Self-contained breathing apparatus

**SCL** Specific Concentration Limit

ST Short term

**STOT-SE** Specific target Organ Toxicity - Single Exposure

**UN** United Nations

vPvB very Persistent and very Bioaccumulative