SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

Product number and name	**99070 CLINOMIX STOCK REMEDY 50kg**
Product type	Natural molecular sieve

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

Relevant identified uses	Feed additive
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 www.pratleyminerals.com
Supplied in South Africa by	Pratley (Proprietary) Ltd 14 Jackson Street, Factoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 sales@pratley.com www.pratley.com
Supplied outside South Africa by	Pratley Exporting (Proprietary) Ltd 14 Jackson Street, Factoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 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.

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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. Classification for both materials is the same.

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.

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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.

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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,

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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 (CAS No,)	Route of exposure	Exposure Limit	
		ACGIH TLV	OSHA PEL
Nuisance dust	Inhalation	10mg/m^3 (inhalable particles)	5mg/m (respirable fraction) 15mg/m^3 (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	Powder
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.

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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	0 – 1.4mm

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.

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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.

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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 changed	Section	Changes
2024.01.18		Re-evaluated hazard after additional training and compliance with Regulation (EU) 2020/878. Format of document changed and particle size information added.
2017.07.08		Initial document

Abbreviations used:

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

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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
PBT	Persistent, Bioaccumulative and Toxic
PNEC	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

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