

# MATERIAL SAFETY DATA SHEET

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## MSDS - CLINOMAX™

High-Performance Natural Zeolite

Issued by BENTONISA | Issue Date: 11/01/2025

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## SECTION 1: Identification of the product and the company

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**Product Name:** CLINOMAX - Natural Zeolite (Clinoptilolite)

**Product Code:** CLIN-001

**Recommended Use:** Animal feed additive, soil conditioner, industrial adsorbent

**Manufacturer/Supplier:**

BENTONISA - Importer and Distributor

Brazil

**Emergency Telephone:** Consult supplier

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## SECTION 2: Hazards identification

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**Classification:**

- EU Regulation (EC) No 1272/2008: Not classified as hazardous
- EU Directive 1999/45/EC: Not classified as hazardous

**Label Elements:**

EU Regulation (EC) No 1272/2008: Not regulated

**Other Hazards:**

Possibility of dust generation during handling. Dust may cause slight irritation to

respiratory tract, skin or eyes.

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## SECTION 3: Composition/information on ingredients

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**Substance:** Natural Mineral Zeolite, Clinoptilolite

**Chemical Name:** Calcium, Potassium, Sodium Aluminosilicate

**Chemical Formula:**  $(Ca, K_2, Na_2, Mg)_4 Al_8 Si_{40} O_{96} \cdot 24H_2O$

**CAS No:** 12173-10-3

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## SECTION 4: First aid measures

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**General:**

No special measures necessary

**After Inhalation:**

Breathe fresh air. Consult doctor if necessary

**After Skin Contact:**

If skin irritation occurs, wash with water

**After Eye Contact:**

Rinse with plenty of water

**After Ingestion:**

Drink plenty of water

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## SECTION 5: Firefighting measures

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**Extinguishing Media:** Non-combustible. Compatible with all extinguishing media

**Special Hazards:** None

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## SECTION 6: Accidental release measures

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**Personal Precautions:** Avoid dust generation

**Protective Equipment:** Use mask and safety goggles if dust is generated

**Environmental Precautions:** No special precautions

**Cleanup Methods:** Sweep or shovel and place in suitable container

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## SECTION 7: Handling and storage

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### Handling:

- Avoid dust generation
- Use personal protective equipment when necessary
- Ensure good ventilation

### Storage:

- Store in a dry and cool place
  - Keep containers tightly closed
  - Protect from moisture
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## SECTION 8: Exposure controls/personal protection

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### Occupational Exposure Limits:

Not specifically established for clinoptilolite

### Engineering Controls:

Adequate ventilation to minimize dust exposure

### Personal Protective Equipment:

- **Respiratory Protection:** Dust mask (if dust is generated)
- **Hand Protection:** Protective gloves

- **Eye Protection:** Safety goggles
  - **Skin Protection:** Suitable work clothing
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## SECTION 9: Physical and chemical properties

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Property	Value
Appearance	Ivory white powder
Odor	None
pH	7.0 - 8.0
Melting Point	1300 °C
Boiling Point	Not applicable
Flash Point	Not applicable (non-combustible)
Bulk Density	0.6 - 0.8 g/cm <sup>3</sup>
Water Solubility	Insoluble

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## SECTION 10: Stability and reactivity

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**Chemical Stability:** Stable under normal conditions

**Hazardous Reactions:** None known

**Conditions to Avoid:** None in particular

**Incompatible Materials:** Strong acids

**Hazardous Decomposition Products:** None

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## SECTION 11: Toxicological information

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**Acute Toxicity:** Not classified as toxic

**Skin Corrosion/Irritation:** May cause slight irritation from prolonged contact

**Serious Eye Damage/Eye Irritation:** May cause slight irritation

**Respiratory or Skin Sensitization:** Not sensitizing

**Germ Cell Mutagenicity:** Not mutagenic

**Carcinogenicity:** Not classified as carcinogenic

**Reproductive Toxicity:** Not toxic to reproduction

**Specific Target Organ Toxicity (Single Exposure):** No known effects

**Specific Target Organ Toxicity (Repeated Exposure):** No known effects

**Aspiration Hazard:** Not applicable

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## SECTION 12: Ecological information

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**Aquatic Toxicity:**

- Not toxic to aquatic organisms
- Product of natural origin

**Persistence and Degradability:** Inert mineral, not degradable

**Bioaccumulative Potential:** Not bioaccumulative

**Mobility in Soil:** Low mobility

**Other Adverse Effects:** None known

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## SECTION 13: Disposal considerations

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### Waste Treatment Methods:

- Dispose in accordance with local regulations
  - Can be used as soil conditioner
  - Not classified as hazardous waste
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## SECTION 14: Transport information

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**UN Number:** Not applicable

**Proper Shipping Name:** Natural Zeolite

**Transport Hazard Class:** Not classified as hazardous

**Packing Group:** Not applicable

**Land Transport (ADR/RID):** Not regulated

**Sea Transport (IMDG):** Not regulated

**Air Transport (ICAO/IATA):** Not regulated

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## SECTION 15: Regulatory information

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### Specific Regulations:

- Intended for use in animal feed according to local regulations
  - Meets safety standards for industrial applications
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## SECTION 16: Other information

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**Revision Date:** 11/01/2025

**Version:** 2.0

### Additional Information:

The information contained in this MSDS is based on current knowledge about the

product and is intended to describe the product only in terms of health, safety and environmental requirements. It should not be construed as a guarantee of any specific property of the product.

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**BENTONISA - Importer and Distributor**

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## **COMMERCIAL INFORMATION**

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**Trade Name:** CLINOMAX™

**Importer and Distributor:** BENTONISA

**Origin:** Turkey

**Disclaimer:** This product is imported from Turkey and marketed in Brazil by BENTONISA under the trade name CLINOMAX™. BENTONISA is responsible for the importation, storage and distribution of the product, ensuring compliance with the safety specifications described in this document.

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