PART 1

MSDS Form No: 005
Date of Issue: January 2014

Product Name: ZEOLITE (CLINOPTILOLITE)
Date of Revision: May 2016
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PART 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade Name
Group
Producer
Office Address
Factory Address
Emergency Phone Number

ZEOLITE (CLINOPTILOLITE)
Clinoptilolite group (of sedimentary origin) (1g568)
Gordes Zeolit Madencilik Sanayi ve Ticaret Anonim Sirketi
Ankara Cad. No:81/123 Bayraklı Izmir/Turkey
Demirci Yolu 4.km Bodamaz Mevkii Gordes Manisa/Turkey
T: +90 232 348 56 56 F:+90 232 348 43 10

T:+90 236 547 30 17

T : + 90 232 348 56 56
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2. HAZARDS IDENTIFICATION

2.1.

Physical Hazards None

Health Hazards  
Eye Contact Causes mild irritation, stinging, tearing and redness.  
Skin Contact Can cause mild irritation, redness and burning.  
Inhalation The absorption through the skin has caused no harmful effects.  

Excessive doses may cause coughing and difficulty in breathing.

Environmental Hazards None
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2.2

Attention

H373: May cause damage to organs through prolonged or repeated exposure cause the hazard.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure inhalation.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash water thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P270: Do not eat, drink or smoke when using this product
P271: Use only outdoors or in a well-ventilated area.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P321: Specific treatment (see on this label).
P330: Rinse mouth.
P332+P313: If skin irritation occurs: Get medical advice/attention
P362: Take off contaminated clothing and wash before reuse
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P312: If eye irritation persists: Get medical advice/attention.  
P314: Get medical advice/attention if you feel unwell  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents/container to.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>EICNECS No.</th>
<th>Ratio %</th>
<th>Classification CLP</th>
<th>Classification CPL</th>
</tr>
</thead>
</table>
| Zeolites    | 1318-02-1 Clinoptilolite; 12173-10-3 | 215-283-8 | 100    | STOT RE 2 H373 GHS07  
Skin Irrit.2 H315 GHS08  
Eye Irrit.2 H319  
Acute Tox.4 H332  
STOT SE 3 H 335 | Xi; R36/37/38 |
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4. FIRST AID MEASURES

Eye Contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin Contact
Wash with plenty of soap and water.

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion
Rinse mouth. Do not induce vomiting. Please contact a Poison Control Centre or doctor.

5. FIRE-FIGHTING MEASURES

Flash Point
None

Flammability Limit
None

Suitable Extinguishing Media
Water (spray form), carbon dioxide, dry chemicals, foam

6. ACCIDENTAL RELEASE MEASURES

For Non-Emergency Personnel
No special measures required

For Emergency Responders
Handle in accordance with good industrial hygiene and safety practice

Environmental Precautions
No special environmental precautions required

7. HANDLING AND STORAGE
Protect from moisture and water. Keep away from children and food.
Store in a well-ventilated place. Keep container tightly closed. Store locked up.
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Handling  Avoid static charges
Storage  Store in original packaging in a cool and dry environment; avoid direct exposure to sunlight. Protect from moisture and water.
Transport  Not classified as a dangerous material for road and rail transport.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Controls  General industrial hygiene practice

Personal Protection Equipment

Respiratory Protection  Use dust mask
Hand Protection  Dry moleskin gloves
Eye Protection  Avoid contact with eyes, use goggles
Skin and Body Protection  No special measures required

Thermal Hazards  No special measures required

Environmental Exposure Controls  No special measures required
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9. PHYSICAL, CHEMICAL AND MINERALOGICAL PROPERTIES

Form Solid, powder, granular
Colour White, light cream, whitish beige, beige
Odour None
Moisture Standard: <4%, <8%, <12%. Moisture level can be adjusted.
Size Standard: < 200 µm, < 1mm.
Standard: 1-2 mm, 2-4 mm–, 1-3 mm, 3-5 mm, 5-8 mm, 8-16 mm, 16-32 mm
Any other size available.
Specific Gravity 1,9 – 2,1 g/cm3
Bulk Density 0,6 – 1,2 g/cm3
Solubility in Water Insoluble
Average Porosity 35-40%
Surface Area 40,79 m²/g
Water Retention Capacity 35-45%
NH4+ Change Capacity 1,6 – 2,0 meq/g
Thermal Stability up to 840 °C

10. STABILITY AND REACTIVITY

Stability No decomposition if used, handled and stored properly
Reactivity No information available
Hazardous Decomposition Products None under normal use
Incompatible Materials None
Conditions to Avoid None
11. TOXICOLOGICAL INFORMATION

Toxicity: No known toxicity to plants or animals.
Environmental fat: Inorganic material does not decompose and is not eliminated from environment by means of biological cleaning processes.
Bioaccumulation: Does not bio-accumulate in animal or plants.

12. ECOLOGICAL INFORMATION

Toxicity: Non-toxic
Bio-accumulative Potential: Does not bio-accumulate. Accumulation in aquatic and terrestrial organisms unlikely
Further Information: Handle in accordance with good hygiene and safety practice

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container to.
Product: Dispose of in accordance with local regulations
Packaging: Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

UN Number: DOT, ADR, ADN, IMDG, IATA: Not Regulated
UN Proper Shipping: DOT, ADR, ADN, IMDG, IATA: Not Regulated
Transport Hazard Class: DOT, ADR, ADN, IMDG, IATA: Not Regulated
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classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and

Packing Group: DOT, ADR, IMDG, IATA : Not Regulated

15. REGULATORY INFORMATION
  European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of
  Chemicals (REACH) (1)
• REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December
  2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

16. OTHER INFORMATION

ADR     European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN     European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS     Chemical Abstracts Service (division of the American Chemical Society)
CLP     Classification, Labeling, and Packaging Regulation (EC) No 1272/2008
DNEL    Derived No-Effect Level (REACH)
DOT     US Department of Transportation
DSL     Domestic Substance List
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EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EPA Environmental Protection Agency
GHS Globally Harmonized System of Classification and Labelling of Chemicals
HMIS Hazardous Materials Identification System (USA)
IARC International Agency of Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Code for Dangerous Goods
NIOSH National Institute of Occupational Safety and Health
NFPA National Fire Protection Association (USA)
NTP National Toxicological Program
PBT Persistent, Bioaccumulative, and Toxic
PNEC Predicted No-Effect Concentration (REACH)
REACH Registration, Evaluation, Authorisation, and Restriction of Chemicals; (EC) 1907/2008
RCRA Resource Conservation and Recovery Act
SARA Superfund Amendment and Reauthorization Act
SVHC Substances of very high concern
TSCA Toxic Substances Control Act
TLV Threshold Limit Value
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Ayşegül Yörük Yalçın
Chemist
Certificate No: 01.61.04
Validity Date of Certificate: 19.10.2018

DISCLAIMER: This Safety Data Sheet is prepared with information to the best of our knowledge and provides guidance about the safety measures to be taken during use, handling, storage and transport of the product. It cannot be seen as a product warranty certificate or a technical specification.