	<b>MATERIAL SAFETY DATA SHEET</b>		
	<i>According to the "Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures" (dated 13.12.2014 and numbered 29204) and (EC) 1272/2008</i>		
<b>ZEOLITE - CLINOPTILOLITE</b>			

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

### 1.1 Product Identifier

Trade Name: ZEOLITE - CLINOPTILOLITE  
MSDS No: MSDS-ONEM-000001

### 1.2 Relevant Identified Uses of the Substance or Mixture

It is used as paper additive, prefabricated structural component, in energy, health and textile industry, as deodorizer and desiccant, fertilizer additive, asphalt additive, in agriculture, livestock farming, lanscape, as cement additive, filtration material, feed additive, animal litter material, petroleum and waste oil cleaning material.

### 1.3 Details of the Supplier of the Safety Data Sheet

#### 1.3.1 Manufactured by

Company Name: MEC Enerji Madencilik N . NAK. SAN. ve T C. LTD. T .  
Address: RE T GAL P CAD. 85/2 G.O.P. ÇANKAYA / ANKARA  
Phone: 00 90 312 311 69 20  
Fax: 00 90 312 311 69 21  
Website: www.zeomec.com  
e-mail: info@zeomec.com

### 1.4 MSDS Preparer's Name

Mert YILMAZTÜRK - mert.yilmazturk@zeomec.com – 00 90 312 311 69 20

### 1.5 Information in Emergency Situations

Emergency Telephone Number : 00 90 312 311 69 20  
First Aid Emergency Center : 112  
National Poison Center : 114  
Fire-fighting : 110



## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

According to EC 1272/2008 (CLP)

This product does not pose a physical and environmental hazard.

### 2.2 Label Elements

#### 2.2.1 Pictogram(s)

Not available.

#### 2.2.2 Signal Word

Not available.

#### 2.2.3 Hazard Statements

Not available.


#### 2.2.4 Precautionary Statements

Not available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Chemical Characterisation

Madde veya Bileşik	%	CAS No	EC No	Sınıflandırma
SİLİSİYUM OXIDE	70-75	99439-28-8	-	-
ALUMİNİYUM OXIDE	10-15	90669-62-8	-	-
MAGNEZYUM OXIDE	0-5	82375-77-7	-	-
SODİYUM OXIDE	0-5	12401-86-4	-	-

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POTASSIUM OXIDE	0-5	37382-43-7	-	-
CALCIUM OXIDE	0-5	60873-85-0	-	Cilt Tah. 2, H315 Göz Hsr. 1, H318 BHOT Tek Mrz. 3, H335
TITANIUM DIOXIDE	0-5	98084-96-9	-	-
MANGANESE	0-5	1344-43-0	215-695-8	-
IRON OXIDE	0-5	76774-74-8	-	-
PHOSPHATE	0-5	-	-	-

See section 16 for explanation of H- and R-phrases listed above.

#### 4. FIRST AID MEASURES

##### 4.1 Description of First Aid Measures

4.1.1 After inhalation: Smoke or dust may cause irritation in upper respiratory tract.

4.1.2 After skin contact: It does no harm; immediately seek medical advice, if it indicates an irritant feature.

4.1.3 After eye contact: Immediately keep eye lids open and wash with plenty of water. If an irritating case develops, consult a doctor. Keep rinse out.

4.1.4 After swallowing: Since magnesium is a product having acute toxicity, it may cause irritation in case of being swallowed.

##### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No further relevant information available.

##### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

#### 5. FIRE FIGHTING MEASURES

##### 5.1 Suitable Extinguishing Agents

The product is non-flammable. In the event that a contrary situation occurs, dry sand and metal extinguishing powder are used.

##### 5.2 Special Hazards Arising from the Substance or Mixture

As long as it is not kept out of its original package, it does not lead to the explosion.

##### 5.3 Advice for Firefighters

Full protective clothing with independently breathable equipment.

##### 5.4 Additional Information

No further relevant information available.

#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid of contact with eyes.

##### 6.2 Environmental Precautions


Refer to the list of security measures since it is eco-friendly.

##### 6.3 Methods and Material for Containment and Cleaning up

Keep in suitable, closed containers for disposal.

##### 6.4 Reference to Other Sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

In workplaces where the product is available, regulations concerning storage areas are applied. Product for external use only. Do not swallow. Prevent its contact with skin and eyes continually. Use it by following the instructions for use which are specified on the label. See Section 8, for personal protection. Observe the regulations concerning occupational safety and necessary precautions stated on the label. Its contact with eyes must be avoided. Enable the environment where product is being used to be well-ventilated.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

ONLY keep it in its PE, PVC, CPVC and/or PP package. Recommended temperature range for storage is none available. Keep out of food and food stuffs. Refer to the first paragraph for product indications. Store it in its original package and cool, dry and moisture free and well-ventilated areas by keeping it out of acid and oxidizing agents and/or substances.

### 7.3 Specific End Use(s)

No further relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

In comply with the requirements of 89/686/EEC, use personal protective clothes and equipments. Data provided this section is only applied to the product specifically determined in this document. In case of synchronously or accompanying usage with other chemical substances, personal protective equipments suitable for these substances should be definitely chosen.

### 8.2 Exposure Controls

#### 8.2.1 Engineering controls

Use local exhaust or other engineering controls to maintain dust levels below exposure limits.

#### 8.2.2 Personal protective equipment

8.2.2.1 Eye and face protection: Prevent its contact with skin and eyes. Provide safety goggles with side protection for the personnel to service securely. The presence of a water-supply point near-by is required.

8.2.2.2 Respiratory protection: Dust mask or appropriate respirator.

8.2.2.3 Skin protection: Do not eat or drink anything and do not smoke. After every usage, wash your hands. After every usage, systematically clean protective equipments separately with plenty of water.

8.2.2.4 Hand protection: During the use of this product, wearing protective gloves are recommended. Vinyl, latex or nitril gloves should not be used. If any deformation is seen, gloves should be replaced with new ones.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

Appearance	Solid
Color	Off-white
Odor	None
Odor Threshold	Not determined
pH	6.64
Melting point/Melting range	1300 °C
Boiling point/Boiling range	Not determined
Density	Not determined
Flash Point	Not determined
Vapor Pressure	Not determined
Porosity	33%
Relative Density (water=1)	Not determined
Solubility in Water	Insoluble
Min ignition temperature	Not determined
Min ignition energy	Not determined


### 9.2 Other Information

No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal use conditions.

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#### 10.2 Chemical Stability

Stable under normal conditions.

#### 10.3 Possibility of Hazardous Reactions

Keep away from acids.

#### 10.4 Conditions to Avoid

Keep away from all ignition sources.

#### 10.5 Incompatible Materials

Acids, bases, oxidizing agents/substances.

#### 10.6 Hazardous Decomposition Products

In case of combustion, it releases fumes of magnesium oxide and in case of reaction with acids, explosive hydrogen gas.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects

11.1.1 When exposed by inhalation: It may cause irritation in respiratory tracts in case of inhalation.

11.1.2 When swallowed: It does not lead to any ailment.

11.1.3 When splashed of in case of contact with skin: Rash or allergic reaction may be seen.

11.1.4 When splashed or in case of contact with eyes: It may cause eye blariness and lachrymation.

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

It does not an environmentally hazardous product. Information given below is based upon data concerning detail sections.

#### 12.2. Persistence and Degradability

No further relevant information available.

#### 12.3 Bioaccumulative Potential

Surface active agents included in this mixture are the same of surface active agents within the scope of European Union and comply with the biodegradability criteria stated under the law numbered 648/2004 of EU.

#### 12.4 Mobility in Soil

No further relevant information available.

#### 12.5 Results of PBT and vPvB Assessment

No further relevant information available.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste Treatment Methods

Preferably by means of notified body or a collector, put to recycling process or dispose it in accordance with the legislation in force.

#### 13.2 Uncleaned Packagings

Submit it to a notified body for recycling process.

Legislations concerning wastes (2001/573/EC Decision, 2006/12/EEC

Directive, 94/31/EEC Directive for hazardous wastes): 18 01 6\* chemicals consisting of or containing dangerous substances

For detailed information:

18=wastes resulted from collaborative researches and / or in medical or veterinary respects

(Apart from kitchen wastes and wastes produced by estaurant management , which are not directly resulted from medical respects)

Waste code should be provided by the user, according to the application of product.


#### 13.3 Additional Information

Refer to national and international legislation relating to waste .

See Section 7 for information on safe handling.

### 14. TRANSPORT INFORMATION

14.1 UN Number ADR, ADN, IMDG, IATA	Not classified
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14.2 UN Proper Shipping Name ADR, ADN, IMDG, IATA	Not classified
14.3 Transport Hazard Class(es) ADR, ADN, IMDG, IATA	Not classified
14.4 Packing Group ADR, IMDG, IATA	Not classified
14.5 Environmental Hazards Marine Pollutant	Not classified
14.6 Special Precautions for User	Not classified
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not classified

According to the current provisions directing the transportation of dangerous substances by Land (ADR) , Marine (IMDG) and Aerial (IATA) transportation , it is not subjected to transport legislations. Product should be handled in accordance with the rules and principles for storage, stowage and consignment. As a result of deformation of packages, dust may be scattered around. In case, refer to the article 13.

#### 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

- Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures
- Regulation on Classification, Labelling and Packaging of Substances and Mixtures
- Regulation on Limitations Related to the Production, Placing on the Market and Use of Some Hazardous Substances, Preparations and Goods
- Regulation on Occupational Health and Safety
- Regulation of Health and Safety Measures for the Works with Carcinogenic and Mutagen Substances
- Regulation of Health and Safety Measures for the Works with Chemical Substances
- Regulation on the Use of Personal Protective Equipment at the Workplaces
- Regulation on Controlling the Hazardous Wastes
- Regulation on Prevention of Major Industrial Accidents and Reducing the Effects

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

#### 16. OTHER INFORMATION

16.1 Legal Instruments

This document 91/155 / EEC, 2001/58 / EC, in accordance with ISO 11014-1, 13 December 2014 and 29204 No. " Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures " prepared in accordance with and documented as prescribed in regulations made by qualified personnel accredited and approved.

16.2 Safety Data Sheet by Prepared / Edited / Publisher

MEC Enerji Madencilik N . NAK. SAN. ve T C. LTD. T . on behalf of Ba kent Danı manlık Yapı ve E itim Hizmetleri

Expert: Gökçe Pınar HEK MO LU ([gokce@baskent.com.tr](mailto:gokce@baskent.com.tr))

Expert Accreditation No: TSE-GBF-2168 (30.12.2015)

[www.baskent.com.tr](http://www.baskent.com.tr); [gokce@baskent.com.tr](mailto:gokce@baskent.com.tr); +90 212 272 56 56

16.2.1 Contact

Mert YILMAZTÜRK

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+ 90 312 311 69 20

16.3 Date of Issue

19.02.2016

16.4 Safety Data Sheet No

MSDS-MEC-000001





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**16.5 Regulation No**  
1

**16.6 Comments**

It is the first regulation.

**16.7 Relevant Phrases** (Hazard and Precautionary Statements of Raw Materials listed in section 3)

**16.7.1 Related H-phrases (Section 3)**

None

**16.7.2 Related P-phrases (Section 2)**

None

**16.8 Other Information**

- For our training recommendations for the safe use of the product, please contact our sales department.
- For proposed restrictions and without not legal obligation advice about the use of the product , please contact our sales department.
- Key information sources used for issuing this safety data sheet;
  - ❖ *Safety Data Sheet related to the product issued by **MEC Enerji Madencilik İNŞ. NAK. SAN. ve TİC. LTD. ŞTİ.,***
  - ❖ *"Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures" and annexes thereof,*
  - ❖ *"Regulation on Classification, Labelling and Packaging of Substances and Mixtures" and annexes thereof,*
  - ❖ *"Regulation of Health and Safety Measures for the Works with Carcinogenic and Mutagen Substances" and annexes thereof,*
  - ❖ *Other related regulations,*
  - ❖ *UN ADR, IMDG, IATA lists, ECHA and relevant EU directives,*
  - ❖ *Other supplementary resources.*

**16.9 Additional information**

- The information provided in this Safety Data Sheet is prepared based on our best experience, knowledge and belief as of the date the information is prepared. The information given is designed for providing a guidance on safe handling, use, processing, storage, transportation, destruction and disposal.
- Unless otherwise stated in the document, this information only applies for the given substance and might not be valid if this substance is used with other substances or used in any other process.
- Please take the information provided in the Safety Data Sheet into account for use.
- **This information is based on our existing knowledge.**
- **This Safety Data Sheet defines the product according to the suitable safety regulations, but does not guarantee the assurance of product specifications.**
- **It does not constitute any kind of guarantee and does not establish a legally valid agreement related to the product specifications.**

**16.10 Abbreviations**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>CAS</b>	Chemical Abstract Service Number
<b>IMDG</b>	International Maritime Code for Dangerous Goods
<b>IATA</b>	International Air Transport Association

**GÖKÇE PINAR HEKİMOĞLU**  
Kimyaşer  
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Sertifika No: GBF-2168