



MATERIAL DATA SHEET (MSDS)

MSDS NUMBER

PAGE NUMBER

ITEM NUMBER

01/01

01

EZ01

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product:	Natural Zeolite Mineral, Clinoptilolite
Cas No:	12173-10-3
Restrictions on use or sale:	None
Producer:	Esen Tarım A.S.
Address:	10032 sok. No18 AOSB Cigli Izmir TURKEY
Telephone:	+90 232 328 29 09
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SECTION 2: HAZARDS IDENTIFICATION

Classification

Eu Regulations (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
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Other Hazards

Possibility of dust generation on handling: Dust can irritate respiratory tracks, skin, eyes

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance:	Natural Zeolite Mineral, Clinoptilolite
Chemical Name:	Calcium, Potassium, Sodium Aluminosilicate
Chemical Formula:	$(Ca, Na, K)_6Al_6Si_{30}O_{72} \cdot 24H_2O$
Cas No:	12173-10-3

SECTION 4: FIRST AID MEASURES

General:	No special measures required
Following Inhalation:	Breathe fresh air, Consult a doctor if needed
Following Skin contact:	If skin irritation occurs, wash with water
Following Eye Contact:	Wash with plenty of water
Following Ingestion:	Drink plenty of water



MATERIAL DATA SHEET (MSDS)

MSDS NUMBER

PAGE NUMBER

ITEM NUMBER

01/01

02

EZ01

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media: Non-combustible. Compatible with all extinguishing media
 Special hazards arising from the substance: None

SECTION 6: ACCIDENTAL RELEASE MEASURE

Personal precautions: Avoid generating dust
 Protective equipment: Use a mask and safety glasses if dust is generated
 Environmental precautions: No special precautions
 Methods and material for cleaning up: Shovel up and place in a suitable container

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid generating and breathing dust
 Conditions for safe storage: Closed and dry area
 Specific end use(s): Can absorb water or liquids

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: No specific measures
 Exposure controls: No specific measures

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light cream
 Smell: Non
 Hardness: 2 - 3 Mohs
 Porosity: 40 %
 Mudding Down: None
 Water Absorption: 42 - 50 %
 Plasticity: Minor
 Solubility: None
 Ph: 5,5 - 7
 Softening Point: 1150 C
 Melting Point: 1300 C
 Bulk Density: 1 - 1,2 g / cm³



MATERIAL DATA SHEET (MSDS)

MSDS NUMBER**PAGE NUMBER****ITEM NUMBER**

01/01

03

EZ01

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Stable
Chemical stability:	Stable
Possibility of hazardous reactions:	None
Conditions to avoid:	None
Incompatible materials:	None
Hazardous decomposition products:	None

SECTION 11: TOXICOLOGICAL INFORMATION

Zeolite has no determined acute toxic affects.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	Non Toxic
Persistence and degradability:	Non-biodegradable. Persistent.
Bioaccumulative potential:	Does not bioaccumulate in animal or plants
Mobility in soil:	Solid, non volitile, insoluble in water

SECTION 13: DISPOSAL CONSIDERATIONS

Not a RCRA Hazardous Waste. Dispose of in accordance with Local, State, and Federal Regulations

SECTION 14: TRANSPORT INFORMATION

Non-Hazardous for Transport. Can be transported in accordance with the standard local authority regulations.

SECTION 15: REGULATORY INFORMATION

Zeolite is not classified as hazardous according to Eu Regulation (EC) No 1272/2008
Natural minerals without chemical modification are exempt from REACH regulation.



MATERIAL DATA SHEET (MSDS)

MSDS NUMBER

PAGE NUMBER

ITEM NUMBER

01/01

04

EZ01

SECTION 16: OTHER INFORMATION

The information on this Material Safety Data Sheet is believed to be accurate and is the best information available to Esen Tarım AS. This document is intended only as a guide to the appropriate precautions for handling. Esen Tarım AS makes no warranty of merchantability or any other warrant, expressed or implied with respect to the information or the product to which this Material Safety Sheet relates.

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