



MATERIAL SAFETY DATA SHEET (MSDS)

ISSUED BY ROTA ZEOLITE MINING CORPORATION

MSDS Number: 01

Issue Date: Oct 2007

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Item Number: NZ01

01- IDENTIFICATION OF THE PRODUCT:

Product Name: Rota Mining Natural Zeolite, Clinoptilolite

Supplier: Rota Madencilik Tar. Hay. Nak. Dis Tic. AS

Supplier Address: Tütüncü Mehmet Efendi Cad. Tepe Apt. No:118 D:5 Göztepe / İstanbul / Türkiye

Phone: 00 90 216 385 1600 **Fax:** 00 90 216 385 4297

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02- COMPOSITION OF THE PRODUCT :

Chemical Name of the Product: Calcium,Potassium,Sodium Aluminosilicate

Synonyms: Clinoptilolite

Chemical Family: Natural Zeolite

Chemical Formula: (Ca,K2,Na2,Mg)4Al8Si40O96.24H2O

CAS No:1318-02-1 **Chem. Abstr. Name:** Zeolites

CAS No:12173-10-3 **Chem. Abstr. Name:** Clinoptilolite

EINECS No: 215-283-8

03- HAZARDS IDENTIFICATION :

Main Hazards: Not classified as hazardous. Possibility of dust generation on handling.

Health Effects (Eyes): Dust can cause transient irritation by abrasion.

Health Effects (Skin): Dust may cause irritation by abrasion.

Health Effects: Inhalation of the dust may cause irritation the mucous membrane and upper airways. Symptoms can include sneezing, coughing and breathing difficulties.

EC Safety: S25 (avoid contact with eyes) S22 (do not breathe dust)

04- FIRST AID MEASURES :

Eye Contact: Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. If irritation develops seek medical attention.

Skin Contact: Wash skin thoroughly with soap and water.

Inhalation: Move the person to the fresh air. If irritation develops seek medical attention.

05- FIRE-FIGHTING MEASURES :

Zeolite is not combustible in case of fire compatible with all extinguishing media.

06- ACCIDENTAL RELEASE MEASURES :

No toxic effects. Clean and recover as suitable.Do not generate dust and collect in suitable containers for recovery or disposal. Dispose of in a landfill.

07- HANDLING AND STORAGE :

Handling: Avoid creating dust. Avoid inhaling dust.

Storage Precautions: Store in a cool dry place, out of direct sunlight.

Not classified as a Dangerous Good for the transport by road and rail.

08- EXPOSURE CONTROLS / PERSONAL PROTECTION :

Respiratory Protection: Dust respirator if conditions are dusty.

Ventilation: Local exhaust ventilation is recommended when dust is likely to be generated from the handling of the material.

Eye / Skin Protection: Use goggles/face shield, pvc gloves and normal work wear overall.

Rota Madencilik Tarım Hayvancılık Pazarlama ve Nakliyat Dış Ticaret Anonim Şirketi

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09- PHYSICAL AND CHEMICAL PROPERTIES :

Physical State (20°C): Solid

Colour: Ivory, White

Odour: None

Melting Point: > 1000 °C

Boiling Point: Not Relevant

Freezing Point: Not Relevant

Vapour Pressure: Not Relevant

Solubility in Water: Not Soluble

10- STABILITY AND REACTIVITY :

Stability: Stable under normal conditions of use

Conditions to Avoid: Not Applicable

Hazardous polymerization: Will not Occur

Material to Avoid: Strong Oxidizing Agents

11- TOXICOLOGICAL INFORMATION :

Inhalation: Inhalation of the dust may cause irritation the mucous membrane and upper airways.

Eye Contact: This material is irritant to eyes.

Skin Contact: The degree of irritation was insufficient to warrant labelling as a skin irritant.

12- ECOLOGICAL INFORMATION :

Mobility: This product is not volatile and insoluble and will accumulate in the ground.

Persistence / Degradation: This product is resistant to biodegradation.

13- DISPOSAL CONSIDERATIONS :

Dispose in a landfill. Dispose of in accordance with all applicable local and national regulations.

14- TRANSPORT INFORMATION :

U.S. DOT, IMDG, ICAO/IATA, RID/ADR: Not Regulated

15- REGULATORY INFORMATION :

Zeolite is approved by EU for use in the swine and poultry industry as Myco-Toxin binder. (70/524/EEC)

Zeolite is approved by FDA for use in animal feeds for use as an anti-caking agent. (CFR 582-2727)

Natural Zeolites are on the GRAS (Generally Recognized As Safe) list maintained by the FDA.

Natural zeolites are inert, non-toxic minerals which are federally classified as GRAS (generally recognized as safe) in most applications and exempted from regulations and reporting when used in accordance with good agricultural practice and when less than 2% in animal feed products (40 CFR, Part 180.1001).

16- OTHER INFORMATION :

This material safety data sheet (MSDS) has been prepared in compliance with the relevant EU directives and regulations. The information in this MSDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. Rota Madencilik Tar.Hay.Nak.Dış Tic. AS believes this information to be reliable and up to date as the date of publication, but makes no warranty that it is. Additionally, if this material safety data sheet is more than three years old, you should contact Rota Madencilik Tar.Hay.Nak.Dış Tic. AS at the phone number listed below to make certain that this sheet is current.