

MATERIAL SAFETY DATA SHEET (MSDS)

ISSUED BY STARKE

MSDS Number: 01

Issue Date: Jan 2024

Revision Number: 04

Item Number: PZ05

SECTION 1: Identification of the substance and of the company

Product:	Natural Mineral, Clinoptilolite
Cas No:	12173-10-3
Restrictions on use or sale:	None
Producer:	Starke AS
Address:	17 Najafgarh Road New Delhi 110015 India
Telephone:	0124 - 4277420
Fax:	
Web:	www.starkefiltermedia.com
E-mail:	info@starkefiltermedia.com
Emergency telephone number:	0124 - 4277420

SECTION 2: Hazards identification

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 on handling. Dust can slightly irritate respiratory tracks, skin or eyes.

SECTION 3: Composition/information on ingredients

Substance:	Natural Mineral, Clinoptilolite
Chemical Name:	Calcium, Potassium, Sodium Aluminosilicate
Chemical Formula:	$(Ca,K_2,Na_2,Mg)_4Al_8Si_{40}O_{96} \cdot 24H_2O$
Cas No:	12173-10-3

SECTION 4: First aid measures

General:	No special measures required
Following Inhalation:	Breath 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

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 or sweep up and place in a suitable container

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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:	Ivory white
Smell:	Non
Hardness:	2 - 3 Mohs
Porosity:	40- 45 %
Mudding Down:	None
Water Absorption:	36 - 48 %
Plasticity:	Minor
Solubility:	None
Ph:	7,0 - 7,5
Softening Point:	1150 °C
Melting Point:	1300 °C
Bulk Density:	0,6 - 0,8 g / cm ³

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 effects.

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 volatile, insoluble in water

SECTION 13: Disposal considerations

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

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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.

SECTION 16: Other information

The information on this Material Safety Data Sheet is believed to be accurate and is the best information available to Rota Madencilik AS. This document is intended only as a guide to the appropriate precautions for handling. Rota Madencilik 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.