

# 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:                     | Zeolite 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:        | Zeolite Natural Mineral, Clinoptilolite      |
| Chemical Name:    | Calcium, Potassium, Sodium Aluminosilicate   |
| Chemical Formula: | $(Ca,K_2,Na_2,Mg)_4Al_8Si_{40}O_{96}.24H_2O$ |
| 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 <sup>3</sup> |

## 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.