

Material Safety Data Sheet

NATURAL ZEOLITE

Section 1 - Product Identification

Synonyms : Clinoptilolite
 CAS No. : 1318-02-1
 Molecular Weight : 162.14 g/mol
 Chemical Formula : $\text{Na}_2\text{Al}_2\text{Si}_2\text{O}_8 \cdot x\text{H}_2\text{O}$
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Section 2 – Hazards Identification

Emergency Overview

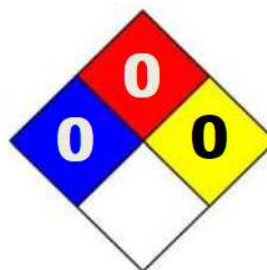
Appearance	Solid granules
Color	Light tan to light green
Odor	Odorless
Hazard Summary	This product is not classified as dangerous according to GHS

GHS Classification

Not applicable

GHS Label element

Hazard pictograms : not applicable
 Signal Word : no signal word



NFPA Hazard Rating

Health (Blue) : 0 (no precaution necessary)
 Flammability (Red) : 0 (non combustible)
 Reactivity (Yellow) : 0 (not reactive when mixed with water)
 Special (White) : None

Section 3 – Composition/Information on Ingredients

Ingredients

Component	CAS-No.	Classification	Concentration (%)
Zeolite	1318-02-1	Not hazardous	>97
Quartz	7732-18-5	Not hazardous	1 - 2.5

Section 4 – First-Aid Measures

General advice : This product is a desiccant and generates heat when it absorbs water.
 Inhalation : If inhaled, move to fresh air. Get medical help for complaints.

Skin contact	: Clean with water and soap. If skin irritation is experienced, consult a physician/doctor.
Eye contact	: Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eyes wide open while rinsing. If eye irritation persists, consult a specialist.
Ingestion	: Remove material residues from mouth and rinse. Drink plenty of water. Do not induce vomiting.

Notes to physician

Risks	: None.
Treatment	: Treat symptomatically.

Section 5 – Fire Fighting Measures

Suitable extinguishing media	: Compatible with all.
Unsuitable extinguishing media	: None.
Specific hazards during fire fighting / Specific hazards arising from the chemical	: None known.
Combustion products	: None known.
Special protective equipment for fire-fighters	: None known.
Further information	: None.

See also Section 9 for Physical and chemical properties: Safety data

Section 6 – Accidental Release Measures

Personal Precautions	: Avoid dust.
Environmental Precautions	: No special measures required.
Methods for cleaning up/methods for containment	: Pick up and arrange disposal without creating dust. Collect in plastic or metal containers for disposal.
Additional Advice	: For personal protection see section 8.

Section 7 – Handling and Storage

HANDLING

Advice on safe handling

Avoid contact with eyes, skin, and clothing. Avoid generating and breathing dust.

STORAGE

Requirements for storage areas and containers

No special requirements.

Section 8 – Exposure Controls/Personal Protection

Exposure Guidelines

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye/face protection	:	Not necessary in a well-ventilated area.
Hand protection	:	Wear protective gloves against mechanical hazards according to NIOSH or EN 388.
Skin and body protection	:	Not required under normal use.
Respiratory protection	:	Not necessary in a well-ventilated area.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice	:	None known.
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Section 9 – Physical and Chemical Properties

APPEARANCE

Form	: Solid granules
Color	: Light tan to light green
Odor	: Odorless
Odor Threshold	: No data available

SAFETY DATA

pH	: Not applicable
Melting point/range	: Not determined
Boiling point/range	: Not determined
Flash point	: Not applicable (will not burn)
Evaporation rate	: Not applicable (does not evaporate)
Flammability (solid, gas)	: Not applicable (product is not flammable)
Lower explosion limit	: Not applicable (does not present explosive hazard)
Upper explosion limit	: Not applicable (does not present explosive hazard)
Vapor pressure	: Not applicable
Relative vapor density	: Not applicable
Density	: 2200-2440 kg/m ³
Water solubility	: Insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive

Section 10 – Stability and Reactivity

Conditions to avoid	: avoid elevated temperatures, extremes of temperature and direct sunlight.
Materials to avoid	: The activated (totally dry) product evolves much heat on contact with water.

Hazardous decomposition products : None under normal use.

Thermal decomposition : no data available

Reactivity : No specific test data in relation to product's reactivity is available.

Chemical stability : No decomposition if used as directed.

Hazardous reactions : No hazardous reactions will occur under normal conditions of use and storage.

Section 11 – Toxicological Information

Toxicology Assessment

Acute toxicity

LD50/oral/rat > 10,000 mg/kg

LD50/dermal/rabbit > 2000 mg/kg

LC50/inhalation/rat > 15 mg/L

Local effects : Contact with eyes may cause irritation.

Long term toxicity : Negligible.

Sensitization : None.

Human experience : Product has no known adverse effect on human health.

Carcinogenicity:

IARC : Unknown

OSHA : Unknown

NTP : Unknown

Section 12 – Ecological Information

Ecotoxicity

EC50/48h/daphnia > 1000 mg/L

LC50/95h/fish > 1800 mg/L

Bioaccumulative potential

Does not bioaccumulate

Section 13 – Disposal Considerations

Waste from residues/unused products

Dispose of contents/container in accordance with local regulation

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

Section 14 – Transport Information

Not classified as dangerous in transport regulations.

Section 15 – Regulatory Information

In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP), the product does not need to be classified nor labelled.

GHS Classification

GHS Product Identifier

Zeolite, CAS-No. 1318-02-1, EC-No. 215-283-8., Clay binder

Quartz, CAS-No. 14808-60-7, EC-No. 238-878-4

Section 16 : Additional Information

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Disclaimer

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