

Polymer Add (Thailand) Co; Ltd.



Safety Data Sheet

ZEOLITE

Revision date :

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NUMBER

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Chemical Name ZEOLITE

CAS NO. 1318-02-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

1. Zeolite clinoptilolite is a natural mineral in volcanic rock with strong absorption properties and high ionic exchange.
2. Zeolite exchanges sodium for calcium and magnesium in water.
3. Zeolite removes the water hardness almost completely

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
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5, Nongbon, Prawet, Bangkok
Bangkok - 10250
Thailand
Telephone : 0804531391
Email - contact@polymeradd.co.th

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical and Chemical Hazards Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Human Health Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Environment Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Not a hazardous substance or mixture according to Regulation 67/548/EEC or 1999/45/EC .

2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Signal word Not a hazardous substance or mixture

2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

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| | |
|--------------------------|--|
| CAS NO | 1318-02-1 |
| EC Number | 215-283-8 |
| Molecular Formula | Na ₂ O-Al ₂ O ₃ -xSiO ₂ -yH ₂ O |
| Molecular Weight | 162.043 |
| Concentration | |

4 FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|--------------------------------|--|
| If inhaled | If breathed in, move person into fresh air. If not breathing, give artificial respiration. |
| In case of skin contact | Wash off with soap and plenty of water. |
| In case of eye contact | Flush eyes with water as a precaution. |
| If swallowed | Never give anything by mouth to an unconscious person. Rinse mouth with water. |

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

| | |
|-------------------------------------|--|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
|-------------------------------------|--|

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

None

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

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Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. hygroscopic

7.4 Specific end use(s)

Mentioned under 1.2

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hands protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9 PHYSICAL AND CHEMICAL PROPERTIES

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| | |
|---|------------------------------------|
| a) Appearance | White fine powder |
| b) Odour | No data available |
| c) Odour Threshold | No data available |
| d) pH (% solution in water) | pH Of Solution, 2% wt./wt.: Max 11 |
| pH | No data available |
| e) Melting point/freezing point | No data available |
| f) Initial boiling point and boiling range | No data available |
| g) Flash point | No data available |
| h) Evaporation rate | No data available |
| i) Flammability (solid or gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapour pressure | No data available |
| l) Vapour density | No data available |
| m) Relative density | No data available |
| n) Water solubility | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Autoignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

| | |
|--------------|-------------------|
| Bulk Density | No data available |
|--------------|-------------------|

10 STABILITY AND REACTIVITY

| | |
|---|--|
| 10.1 Reactivity | |
| 10.2 Chemical stability | Stable under recommended storage conditions. |
| 10.3 Possibility of hazardous reactions | No data available |
| 10.4 Conditions to avoid | Avoid moisture. |
| 10.5 Incompatible materials | Strong acids, Strong bases, Hydrogen fluoride, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl |

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10.6 Hazardous decomposition products In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|---|---|
| Acute oral toxicity | LD50 Oral - Rat - male and female - > 5.110 mg/kg (OECD Test Guideline 401) |
| Acute Inhalation toxicity | No data available |
| Acute dermal toxicity | LD50 Dermal - Rabbit - female - > 2.000 mg/kg (OECD Test Guideline 402) |
| Skin corrosion/irritation | Skin - Rabbit, Result: No skin irritation - 4 h (OECD Test Guideline 404) |
| Serious eye damage/eye irritation | Eyes - Rabbit, Result: No eye irritation - 168 h (OECD Test Guideline 405) |
| Respiratory or skin sensitization | Buehler Test - Guinea pig, Result: negative (OECD Test Guideline 406) |
| Germ cell mutagenicity | Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative. 2)Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: positive |
| Carcinogenicity | This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Signs and symptoms of exposure | No data available |
| Route of exposure | No data available |
| Aspiration hazard | No data available |
| Inhalation | No data available |
| Ingestion | No data available |
| Skin | No data available |

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Eyes No data available

RTECS ZG6800000

Signs And Symptoms of Exposure

Cough, Difficulty in breathing, Gastrointestinal disturbance, prolonged or repeated exposure can cause: Damage to the lungs. To the best of our knowledge

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish static test NOEC - Pimephales promelas (fathead minnow) - > 680 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates No data available

Toxicity to Algae/Aquatic plants static test ErC50 - Desmodesmus subspicatus (green algae) - 130 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to microorganisms No data available

12.2 Persistence and degradability

Biodegradation

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bio accumulative potential No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects Discharge into the environment must be avoided.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14 TRANSPORT INFORMATION

14.1 UN number

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| | ADR/RID | IMDG | IATA |
|------|--|-----------------------|---------------------|
| | - | - | - |
| 14.2 | UN proper shipping name | | |
| | ADR/RID | IMDG | IATA |
| | Not dangerous goods | Not dangerous goods | Not dangerous goods |
| 14.3 | Transport hazard class(es) | | |
| | ADR/RID | IMDG | IATA |
| | - | - | - |
| 14.4 | Packaging group | | |
| | ADR/RID | IMDG | IATA |
| | - | - | - |
| 14.5 | Environmental hazards | | |
| | ADR/RID | IMDG Marine pollutant | IATA |
| | No | No | No |
| 14.6 | Special precautions for user | | |
| | Not classified as dangerous in the meaning of transport regulations. | | |

15 REGULATORY INFORMATION**15.1 Safety health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

Month of Creation March 2023

Month of Revision March 2027