

Material Safety Data Sheet

Date: Jan/01/2026

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

1.1. Identification of the product

Substance name: Zeolites

Product name: Synthetic Zeolite Powder

EC No.: 930-915-9

EC name: Zeolite, cuboidal, crystalline, synthetic, non-fibrous

REACH Registration No.: 01-2119429034-49-0041

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

Use of the Substance/Mixture: Molecular sieve for adsorption.

1.3. Details of the supplier of the safety data sheet

Luoyang Jalon Micro-nano New Materials Co., Ltd.

Add: Junmin Road, Industrial Cluster District, Yanshi, Henan, 471900, China.

Tel: +86-379-69895719 **Fax:** +86-379-69895717 **Website:** www.jalonzeolite.com

E-mail: info@jalonzeolite.com

1.4. Emergency telephone number

+86-379-69895719

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No 1272/2008):

This substance is not classified as dangerous according to Regulation (EC) No 1272/2008.

Classification (Directive 67/548/EEC):

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

This substance does not require a label.

2.3. Other hazards

Potential health effects:

Possible temporary irritation of eyes and respiratory system. (Physical effect of dust)

Dehydrating/desiccant effect.

Environmental Effects:

In its normal state, this product does not present any specific risk for the environment.

Physical and chemical hazards:

No special risks of flammability or explosion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1.Substances Chemical name of the substance: Zeolites.

CAS#	Chemical Name	Percent	EINECS/ELINCS
1318-02-1	Zeolites	100	215-283-8

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician

Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

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. Consult a physician.

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)

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: Incombustible product, Use suitable means to extinguish neighbouring fires.

5.2.Special hazards arising from the substance or mixture: None.

5.3. Advice for firefighters:

Specific methods:

Non combustible product that reacts violently with water, foam and olefins or other adsorbable substances.

Special protective actions for fire-fighters:

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid breathing dust. Do not crush; avoid the formation and spread of dust in the air.

6.2. Environmental precautions:

Avoid generating airborne dust. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up:

Methods for cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Elimination: See chapter 13

6.4. Reference to other sections: None.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Technical measures/Precautions:

Use suitable methods of discharge and handling to prevent dust generation. Protect from moisture/humidity.

Safe handling advice:

Smoking, eating and drinking should be prohibited in the application area. Avoid dust formation. Avoid dust accumulation in enclosed space. Appropriate breathing apparatus and safety goggles are recommended.

Hygiene measures:

Remove immediately soaked or soiled clothing. Wash separately. Wash immediately any affected parts of the body. See heading 4.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:

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

Packaging material:

Recommended: Large flexible bulk containers, watertight drums with polyethylene liner.

7.3. Specific end use(s): None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values (dust)

Source	Date	Value type	Value (ppm)	Value (mg/m ³)	Remarks
EH40 WEL	2007	TWA	–	4	Respirable dust.
EH40 WEL	2007	TWA	–	10	Inhalable dust.
ACGIH (US)	2008	TWA	–	10	Inhalable particles.
ACGIH (US)	2008	TWA	–	3	Respirable particles.

Exposure Limit Values: Not relevant

Derived No Effect Level (DNEL): ZEOLITES:

End Use	Inhalation	Ingestion	Skin contact
Workers	3 mg/m ³ (LT, LE)		2,5 - 3 mg/kg (LT, SE)
Consumers	0,0033 mg/m ³ (LT, LE)	1,25 - 1,5 mg/kg (SE, LT)	1,25 - 1,5 mg/kg (SE, LT)

LE: Local effects, **SE:** Systemic effects, **LT:** Long term, **ST:** Short term

Predicted No Effect Concentration: ZEOLITES:

Compartment:	Value:
Fresh water	3,2 mg/l
Marine water	0,32 mg/l
Soil	600 mg/kg
Effects on waste water treatment plants	95 mg/l

8.2. Exposure controls:

Personal protective equipment:

Respiratory protection: Appropriate normalized breathing apparatus is recommended.

Hand protection: Impervious gloves

Eye/face protection: Safety glasses, Eye wash bottle with pure water

Skin and body protection: Protective suit

Environmental exposure controls: See chapter 6

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:

Physical state (20°C):

Solid

Form:

Powder

Colour:

White

Odour:

None.

Olfactory threshold:

Not relevant

pH:

pH 8 - 11, aqueous sludge

Melting point/range:

> 400 °C (OECD Test Guideline 102)

Boiling point/boiling range:

NO, NOT AVAILABLE

Flash point:

NO, NOT AVAILABLE

Evaporation rate:

Not relevant

Flammability (solid, gas):

not applicable

Flammability:

not applicable

Vapour pressure:

not applicable

Vapour density:

Not relevant

Relative density (Water=1):	2,2
Bulk density:	600 - 800 kg/m ³ depending on grade.
Water solubility:	0,0014 g/l Negligible
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	not applicable
Decomposition temperature:	> 400 °C
Viscosity, kinematic:	not applicable
Explosive properties:	
Explosivity:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

9.2. Other data: None.

10. STABILITY AND REACTIVITY

10.1. & 10.2. Reactivity & Chemical stability:

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions: No data available.

10.4. Conditions to avoid:

Store protected from moisture (to maintain the technical properties of the product)

10.5. Incompatible materials to avoid:

Water (exothermic reaction.)

10.6. Hazardous decomposition products: None.

11. TOXICOLOGICAL INFORMATION

To our knowledge, no harmful effects for man under normal conditions of use.

LD50/LC50: Not available.

Carcinogenicity: No information found.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment:

No known harmful effect on the aquatic environment. Product must not be released into the environment if dangerous substances are adsorbed onto the product. Insoluble in aqueous solution, the product can be separated by filtration or sedimentation.

12.1. Toxicity: Fish:

ZEOLITES:

LC50, 96 h (Pimephales promelas (fathead minnow)) : > 680 mg/l (Method: US EPA) Freshwater

Aquatic invertebrates:

ZEOLITES:

EC50, 48 h (Daphnia): > 100 mg/l (Method: OECD Test Guideline 202) Freshwater

Aquatic plants:

ZEOLITES:

EC50, 72 h (Desmodesmus subspicatus (green algae)): > 100 mg/l (Method: OECD Test Guideline 201) Freshwater

Aquatic toxicity / Long term toxicity: Fish:

ZEOLITES:

NOEC, 30 d (Pimephales promelas (fathead minnow)): > 86,7 mg/l (Method: US EPA, Early-life Stage)

Aquatic invertebrates:

ZEOLITES:

NOEC, 21 d (Daphnia magna (Water flea)): 32 mg/l (Method: OECD Test Guideline 211)

12.2. Persistence and degradability:

Stability in water:

Hydrolyses slowly on contact with water.

Biodegradation (In water): Not relevant , inorganic

12.3. Bioaccumulative potential:

Bioaccumulation: Low potential to bioaccumulate

12.4. Mobility in soil - Distribution among environmental compartments:

Absorption / desorption:

Due to its physico-chemical characteristics, the product has very low mobility in the ground.

12.5. Results of PBT and vPvB assessment: None.

12.6. Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment:

Disposal of product:

In accordance with local and national regulations. If product has been used (contains adsorbed substances): dispose of at an approved waste disposal site only. If product not used (in original state): dispose of in accordance with local regulations.

14. TRANSPORTATION INFORMATION

Not classified as dangerous in the meaning of transport regulations.

IATA Not regulated as a hazardous material.

IMO Not regulated as a hazardous material.

RID/ADR Not regulated as a hazardous material.

Not regulated by IMDG/IMO

15. REGULATORY INFORMATION

Safety data sheets: according to Regulation (EC) No. 1907/2006 and its amendment (453/2010)

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

UK REGULATION

Chip3: Chemical (Hazard Information and Packaging for Supply) Regulations 2002

15.2. Chemical Safety Assessment: None.

INVENTORIES:

EINECS: Conforms to

TSCA: Conforms to

AICS: Conforms to

DSL: All components of this product are on the Canadian DSL.

ENCS (JP): Conforms to

KECI (KR): Conforms to

PICCS (PH): Conforms to

IECSC (CN): Conforms to

16. OTHER INFORMATION

Thesaurus:

NOAEL: No Observed Adverse Effect Level (NOAEL)

LOAEL: Lowest Observed Adverse Effect Level (LOAEL)

bw: Body weight

food: oral feed

dw: Dry weight

vPvB : very Persistent and very Bioaccumulative

PBT : Persistent, Bioaccumulative and Toxic

This safety data sheet complies with international standard ISO 11014-1. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma)