



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 08-Mar-2024 Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Zeolite, Synthetic, F-9, Beads, 1.40 - 2.36mm (8 - 12mesh)
Product Code	265-00655
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Serious eye damage/eye irritation Germ cell mutagenicity Carcinogenicity Specific target organ toxicity (repeated exposure) Category 2 respiratory system, immune system, kidneys

Category 2A Category 2 Category 1A Category 2



Hazard statements

- H319 Causes serious eye irritation
- H341 Suspected of causing genetic defects
- H350 May cause cancer

H373 - May cause damage to the following organs through prolonged or repeated exposure: respiratory system, immune system, kidneys

Precautionary statements-(Prevention)

- Obtain special instructions before use
- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary statements-(Response)

• IF exposed or concerned: Get medical advice/attention

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

• If eye irritation persists: Get medical advice/attention

Precautionary statements-(Storage) Store locked up Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Zeolite	70 - 76	N/A	N/A	N/A	1318-02-1
Clay	21 - 27	N/A	N/A	N/A	N/A-26-0065-2
Water	=<5.0	18.02	-	N/A	7732-18-5
Silica sand	0.50 - 1.0	60.08	(1)-548	*	14808-60-7
	* : 41		and all also see to all as the atta		

Note on ISHL No.:

in the table means announced chemical substances.

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment **Unsuitable extinguishing media**

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin,

or inhaling the gas. Work from windward, and retract the people downwind. Environmental precautions To be careful not discharged to the environment without being properly handled waste water contaminated. Methods and materials for contaminent and methods and materials for cleaning up Sweep up and gather scattered particles, and collect it in an empty airtight container. Recoverly, neutralization No information available Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Avoid contact with skin and eyes Use personal protective equipment as required.

Storage

Safe storage conditions	
Storage conditions	Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.
Safe packaging material Incompatible substances	Polyethylene No information available

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

Cł	hemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
	Silica sand	TWA: 0.03 mg/m ³ OEL	N/A	TWA: 0.025 mg/m ³ respirable
	14808-60-7			particulate matter

Personal protective equipment Respiratory protection

Hand protection

Eye protection

Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color

slight brown

Spherical Appearance no data available Odor Melting point/freezing point no data available Boiling point, initial boiling point and boiling range no data available Flammability no data available Evaporation rate: no data available Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: no data available Lower: Flash point no data available Auto-ignition temperature: no data available no data available **Decomposition temperature:** no data available рΗ Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available Solubilities water and organic solvents : practically insoluble, or insoluble . n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available no data available Specific Gravity / Relative density Vapour density no data available **Particle characteristics** Particle size range : 8 - 12 mesh

Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 Stable under recommended storage conditions.

 Hazardous reactions
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight, Moisture
 Incompatible materials

 No information available
 Hazardous decomposition products

 Carbon monooxide (CO), Carbon dioxide (CO2), Silicon compounds

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Zeolite	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Zeolite			Based on the NITE GHS classification results.
Silica sand			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Zeolite			Based on the NITE GHS
Loonto			classification results.
Silica sand	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Skin irritation/corrosion					
Chemical Name		Skin corrosion/irritation source information			
Zeolite		Based on the NITE GHS classification results.			
Silica sand	Silica sand		Based on the NITE GHS classification results.		
Serious eye damage/ irritation					
Chemical Name				urce information	
Zeolite		Based on the NITE GH			
Silica sand		Based on the NITE GH	S classification res	sults.	
Respiratory or skin sensitization					
Chemical Name				ource information	
Zeolite		Based on the NITE GH			
Silica sand		Based on the NITE GH	S classification res	sults.	
Reproductive cell mutagenicity					
Chemical Name			itagencity source		
Zeolite		Based on the NITE GH	S classification res	sults.	
Silica sand		Based on the NITE GH	S classification res	sults.	
Carcinogenicity		·			
Chemical Name			Carcinogenicity source information		
Zeolite		Based on the NITE GHS classification results.			
Silica sand		Based on the NITE GHS classification results.			
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)	
Zeolite		Group 3			
1318-02-1		Gloup 3			
Silica sand	Known	Group 1	A2	Group 1	
Silica sand 14808-60-7	Known		A2	Group 1	
Silica sand 14808-60-7 Reproductive toxicity	Known	Group 1	A2		
Silica sand 14808-60-7	Known	Group 1	e toxicity source	information	
Silica sand 14808-60-7 Reproductive toxicity Chemical Name Zeolite	Known	Group 1 Reproductiv	e toxicity source	information sults.	
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Silica sand 14808-60-7 Reproductive toxicity Chemical Name Zeolite Silica sand STOT-single exposure Chemical Name Zeolite Silica sand STOT-repeated exposure Chemical Name Zeolite	Known	Group 1	e toxicity source S classification res S classification res exposure- source S classification res d exposure- source S classification res S classification res S classification res S classification res Hazard source i	information sults. sults. e information sults. sults. rce information sults. sults.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Zeolite	EC50 : Desmodesmus subspicatus 18 mg/L 96 h	LC50 : Brachydanio rerio 1800 mg/L 96 h	EC50 : Daphnia magna 377.17 mg/L 96 h
Silica sand	N/A	LL0 : Danio rerio 10,000 mg/L 96 h	LL50 : Daphnia magna > 10,000 mg/L 24 h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information

		Based on the NITE GHS classification
	results.	results.
Silica sand	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability	No ir
Bioaccumulative potential	No ir
Mobility in soil	No ir
Hazard to the ozone layer	No ir

No information available No information available No information available No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	Not regulated - Not applicable
IMDG	Not regulated
UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable No information available
the IBC Code	Not regulated
UN number Proper shipping name: UN classfication Subsidiary hazard class	-
Packing group Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious Substances Control Law	Not applicable Not applicable
Industrial Safety and Health Ac	t Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) Notifiable Substances (Law Art.57-2)
Develotions for the comission	Substances designated by the Minister of Health, Labor and Welfare as carcinogenic(Ordinance on Industrial Safety and Health Art.577, Para.2)
Regulations for the carriage	Not applicable

and storage of dangerous goods in ship Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable Register Law (2023.4.1-) Export Trade Control Order Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Silica sand 14808-60-7(0.50 - 1.0)	-	Applicable	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions	The following contents were revised. Prodauct and company Identification. Hazards identification. Composition/information on ingredients. Handling and storage. Exposure controls/personal protection. Stability and reactivity. Toxicological information. Ecological information.
Disclaimer	

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet