



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 24-Jun-2025 Revision Number 5.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Molecular Sieves 4A 1/16
Product Code	137-06085
-	

Supplier FUJIFILM Wako Pure Chemical Corporation

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Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture
Serious eye damage/eye irritation
Germ cell mutagenicity
Carcinogenicity
Specific target organ toxicity (repeated exposure)

Category 1 respiratory system, immune system, kidneys

Category 2A Category 2 Category 1A Category 1







Signal word

Danger

Hazard statements

H319 - Causes serious eye irritation

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H372 - Causes 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
- · Do not eat, drink or smoke when using this product

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
Synthetic Zeolite	70	N/A	N/A	N/A	70955-01-0
Clay Minerals	30	N/A	N/A	N/A	N/A-13-0608-2
Silica sand	<4.9	60.08	(1)-548	*	14808-60-7
Sodium Pyrophosphate	<1.9	265.90	(1)-497	*	7722-88-5

Note on ISHL No.:

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.

^{*} in the table means announced chemical substances.

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, eyes or clothing. 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. Packed with an inert gas.

Safe packaging material Polyethylene

Incompatible substances 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

Chemical 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 Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

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

Colorpale brownAppearancesmall pillarOdorOdorless

Melting point/freezing pointno data availableBoiling point, initial boiling point and boiling rangeno data availableFlammabilityno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
pH
no data available
viscosity (coefficient of viscosity)
no data available
no data available
no data available
no data available

Solubilities water and organic solvents : practically insoluble, or insoluble .

n-Octanol/water partition coefficient:(log Pow)
Napour pressure
Specific Gravity / Relative density
Napour density
Napour density
Particle characteristics

no data available
no data available
Diameter: 1.4 - 2.0 mm

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

No information available

Hazardous decomposition products

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

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Pyrophosphate	1000 - 3000 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
Omea cana			Based on the NITE GHS classification results.
			Based on the NITE GHS classification results.

Chemical Name	_	_	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Silica sand	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Sodium Pyrophosphate	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
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Based on the NITE GHS classification results.

Based on the NITE GHS classification results.

Serious eye damage/irritation source information

Chemical Name					
Silica sand		Based on the NITE GHS classification results.			
Sodium Pyrophosphate	Codidin'i Jiopineopinate		Based on the NITE GHS classification results.		
Respiratory or skin sensitization					
Chemical Name		Respiratory or Sk	Respiratory or Skin sensitization source information		
Silica sand		Based on the NITE GH	S classification resul	ts.	
Sodium Pyrophosphate		Based on the NITE GH	S classification resul	ts.	
Reproductive cell mutagenicity					
Chemical Name			utagencity source i		
Silica sand		Based on the NITE GH	S classification resul	ts.	
Sodium Pyrophosphate		Based on the NITE GH	S classification resul	ts.	
Carcinogenicity					
Chemical Name			enicity source info		
Silica sand		Based on the NITE GH	S classification resul	ts.	
Sodium Pyrophosphate		Based on the NITE GH	S classification resul	ts.	
Chemical Name	NTP	IARC	ACGIH	JSOH	
Silica sand	Known	Group 1	A2	Group 1	
14808-60-7					
Reproductive toxicity					
Chemical Name		Reproductive toxicity source information			
Silica sand		Based on the NITE GHS classification results.			
Sodium Pyrophosphate		Based on the NITE GHS classification results.			
STOT-single exposure					
	Chemical Name		STOT -single exposure- source information		
Silica sand					
		Based on the NITE GH	S classification resul	ts.	
Sodium Pyrophosphate			S classification resul	ts.	
Sodium Pyrophosphate STOT-repeated exposure		Based on the NITE GH Based on the NITE GH	S classification resul S classification resul	ts.	
Sodium Pyrophosphate STOT-repeated exposure Chemical Name		Based on the NITE GH Based on the NITE GH STOT -repeate	S classification resul S classification resul ed exposure- source	ts. ts. information	
Sodium Pyrophosphate STOT-repeated exposure Chemical Name Silica sand		Based on the NITE GH Based on the NITE GH STOT -repeate Based on the NITE GH	S classification resul S classification resul ed exposure-source S classification resul	ts. e information ts.	
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Sodium Pyrophosphate STOT-repeated exposure Chemical Name Silica sand Sodium Pyrophosphate Aspiration hazard		Based on the NITE GH Based on the NITE GH STOT -repeate Based on the NITE GH Based on the NITE GH	S classification results classification resul	ts. information ts. ts. primation ts.	

Section 12: ECOLOGICAL INFORMATION -: National Institute of Technology and Evaluation (IAPAN)

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Silica sand

Sodium Pyrophosphate

Chemical Name

Serious eye damage/ irritation

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Silica sand	N/A	LL0 : Danio rerio 10,000 mg/L 96 h	LL50 : Daphnia magna > 10,000 mg/L 24 h
Sodium Pyrophosphate	N/A	N/A	LC50 : Daphnia magna 391000 µg/L

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Silica sand		Based on the NITE GHS classification results.
Sodium Pyrophosphate		Based on the NITE GHS classification results.

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

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 Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Substances designated by the Minister of Health, Labor and Welfare as carcinogenic(Ordinance on Industrial Safety and Health Art.577, Para.2)

Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Regulations for the carriage and storage of dangerous

goods in ship

Not applicable

Civil Aeronautics Law Not applicable
Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
Synthetic Zeolite 70955-01-0 (70)	-	Applicable	-
Silica sand 14808-60-7 (<4.9)	-	Applicable	-
Sodium Pyrophosphate 7722-88-5 (<1.9)	-	Applicable	-

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

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. Hazards identification. Composition/information on ingredients. Regulatory 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