



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 01-Mar-2024

Revision Number 5.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Formaldehyde-Test wako	
Product Code 290-01041		
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	+81-6-6203-3741 / +81-3-3270-8571	

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

For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification

Recommended uses

Classification of the substance or mixture

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 1
Category 1 respiratory system	

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Acute aquatic toxicity

Category 1

Category 3





Hazard statements

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H302 Harmful if swallowed
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H373 May cause damage to organs through prolonged or repeated exposure
- H304 May be fatal if swallowed and enters airways
- H402 Harmful to aquatic life
- H370 Causes damage to the following organs: respiratory system

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection

- In case of inadequate ventilation wear respiratory protection
- · Avoid release to the environment

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Do NOT induce vomiting
- · Rinse mouth

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 Kit (Set of mixtures)

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Alkali Solution	•	N/A	N/A	N/A	N/A-29-0114
Color Reagent	-	N/A	N/A	N/A	N/A-29-0124
Oxidation Reagent	_	N/A	N/A	N/A	N/A-29-0134

Note on ISHL No.: * in the table means announced chemical substances.

Hazardous Component Potassium hydroxide Solution 28%, 4-Amino-3-Hydrazino-5-Mercapto-1,2,4-Triazole <1%,

Potassium Periodate <1%

Substances Remarks: The composition considered to be hazardous are listed in the above. The remaining

ingredients are not hazardous substances, or exist at below reportable level.

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.

Eve 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

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

Avoid contact with strong oxidizing agents. 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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed. Store locked up.

Safe packaging material Polyethylene

Incompatible substances Strong oxidizing agents, Metals

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
Potassium Hydroxide	Ceiling: 2 mg/m ³	N/A	Ceiling: 2 mg/m ³
1310-58-3			

Personal protective equipment

Respiratory protection Protective mask

Hand protection chemical protective gloves (JIS T 8116)

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

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

Appearance liquid no data available Odor Melting point/freezing point no data available Boiling point, initial boiling point and boiling range no data available no data available **Flammability Evaporation rate:** no data available Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

no data available Upper: Lower: no data available Flash point no data available Auto-ignition temperature: no data available **Decomposition temperature:** no data available рΗ no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available Solubilities water: soluble. n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density no data available Vapour density no data available **Particle characteristics** no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Stable under recommended storage conditions. Chemical stability

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents, Metals

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide	273 mg/kg (Rat)	N/A	N/A

Chemical Name			Acute toxicity -inhalation gas-
	information	information	source information
Potassium Hydroxide	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

Aspiration Hazard source information

Based on the NITE GHS classification results.

	classification results.	classification results.	classification results.
Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Potassium Hydroxide	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/irritat	ion source information
Potassium F	lydroxide	Based on the NITE GHS classif	ication results.
Serious eye damage/ irritation			
Chemical	Name		tation source information
Potassium F	lydroxide	Based on the NITE GHS classif	ication results.
Respiratory or skin sensitization			
Chemical		Respiratory or Skin sensitization source information	
Potassium Hydroxide		Based on the NITE GHS classif	ication results.
Reproductive cell mutagenicity			
Chemical			ity source information
Potassium Hydroxide		Based on the NITE GHS classif	ication results.
Carcinogenicity			
Chemical Name		9 7	source information
Potassium F	Potassium Hydroxide Based on the NITE GHS classification results.		ication results.
Reproductive toxicity			
Chemical Name		Reproductive toxicity source information	
Potassium F	lydroxide	Based on the NITE GHS classification results.	
STOT-single exposure			
Chemical	Name		re- source information
Potassium F	lydroxide	Based on the NITE GHS classif	ication results.
STOT-repeated exposure			
Chemical	Name		sure- source information
Potassium F	lydroxide	Based on the NITE GHS classif	ication results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Aspiration hazard

Other data

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

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

No information available
No information available
No information available

Chemical Name
Potassium Hydroxide

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 UN1814

Proper shipping name: Potassium hydroxide solution

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG

UN number UN1814

Proper shipping name: Potassium hydroxide solution

UN classfication 8

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

UN number UN1814

Proper shipping name: Potassium hydroxide solution

UN classfication 8

Subsidiary hazard class

Packing group ||

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 2nd. Grade

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)

[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

2024~)
Regulations for the carriage

and storage of dangerous

Marine Pollution Prevention

goods in ship

Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Law

Pollutant Release and Transfer Not applicable

Register Law

(2023.4.1-)

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Export Trade Control Order Not applicable

Industrial Safety and Health Law

made in a carety and incare a care			
Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Hydrogen chloride	<2	Existing Law
Notifiable Substances (Law Art.57-2)	Potassium hydroxide	23	Existing Law

Poisonous and Deleterious Substances Control Law

SECTION	Chemical Name in Regulation
Deleterious Substances	Preparation containing Potassium hydroxide

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 Disclaimer

The following contents were revised. Regulatory information.

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