



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Mar-2024 Revision Number 1.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	8% Tetraethylphosphonium Hydroxide Solution		
Product Code	324-33921,322-33922		
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		
Recommended uses	For research use only		
Restrictions on use	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> Skin corrosion/irritation Serious eye damage/eye irritation

Pictograms



Danger

### Hazard statements

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

# **Precautionary statements-(Prevention)**

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

#### **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: Rinse mouth. Do NOT induce vomiting

#### Precautionary statements-(Storage)

# Store locked up

## Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

# Others

Category 1

Category 1

#### 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
Water	91.7-92.0	18.02	-	-	7732-18-5
Tetraethylphosphonium	8.0-8.3	164.23	N/A	N/A	14814-28-9
Hydroxide					
Note on ICUL No.	* in the	table means appaus	and chamical aubota	2000	

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

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 conditionsStore away from sunlight in well-ventilated place at room temperature (preferably cool).<br/>Keep container tightly closed.Safe packaging material<br/>Incompatible substancesGlass<br/>Strong oxidizing agents

# 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**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Personal protective equipment Respiratory protection

Hand protection

Eye protection

Protective mask 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 Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate: Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point

Colorless - slightly yellow liquid characteristic odor no data available Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available no data available Strongly alkaline no data available no data available water , Ethanol and acetone : miscible . no data available no data available 1.001 no data available no data available no data available

# 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
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Phosphorus oxide

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin irritation/corrosion
Serious eye damage/ irritation
Respiratory or skin sensitization
Reproductive cell mutagenicity
Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available no data available no data available no data available no data available

no data available no data available no data available no data available

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer 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	UN3267 Corrosive liquid, basic, organic, n.o.s. (Tetraethylphosphonium Hydroxide Solution) 8 II Not applicable
IMDG	
UN number	UN3267
Proper shipping name:	Corrosive liquid, basic, organic, n.o.s. (Tetraethylphosphonium Hydroxide Solution)
UN classfication	8
Subsidiary hazard class	
Packing group	П
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	UN3267
Proper shipping name:	Corrosive liquid, basic, organic, n.o.s. (Tetraethylphosphonium Hydroxide Solution)
UN classfication	8
Subsidiary hazard class Packing group	П
Environmentally Hazardous	Not applicable
Substance	

# Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	t Not applicable
Industrial Safety and Health Act (	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u>	
Regulations for the carriage	Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of
	Explosives etc., Attached Table 1)
Pollutant Release and Transfer	Not applicable
Register Law	
(2023.4.1-)	
Export Trade Control Order	Not 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. 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**