



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 5.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Phosphoric Acid	
Product Code	168-06596	
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	+81-6-6203-3741 / +81-3-3270-8571 Food additives	

## **Section 2: HAZARDS IDENTIFICATION**

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

#### **GHS** classification

Restrictions on use

Classification of the substance or mixture

Acute toxicity - OralCategory 4Acute toxicity - DermalCategory 4Acute toxicity - Inhalation (Dusts/Mists)Category 3Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Specific target organ toxicity (single exposure)Category 1

Category 1 respiratory system

Acute aquatic toxicity Category 3

## **Pictograms**



## **Hazard statements**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H331 - Toxic if inhaled

H402 - Harmful to aquatic life

H370 - Causes damage to the following organs: respiratory system

## **Precautionary statements-(Prevention)**

- · Use only outdoors or in a well-ventilated area
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- 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: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- · Do NOT induce vomiting

## Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- 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
Phosphoric Acid	75.0	98.00	(1)-422	*	7664-38-2
Water	25.0	18.02	-	N/A	7732-18-5

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

<sup>\*</sup> in the table means announced chemical substances.

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 alkaline substances. 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.

Safe packaging material Incompatible substances

Polyethylene Bases, 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
Phosphoric Acid 7664-38-2	TWA: 1 mg/m³ OEL	N/A	STEL: 3 mg/m³ TWA: 1 mg/m³

## Personal protective equipment

**Respiratory protection Gas mask for acidic gas (JIS T 8152) 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** 

ColorcolorlessTurbidityclearAppearanceliquidOdorOdorless

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

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 : freely soluble . Ethanol : soluble .

**n-Octanol/water partition coefficient:(log Pow)**no data available **Vapour pressure**no data available

Specific Gravity / Relative density 1.579

Vapour densityno data availableParticle characteristicsno data available

# **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

Bases, Metals

Hazardous decomposition products

Phosphorus oxide

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric Acid	2000 mg/kg ( Rat )	1071 mg/kg(Rabbit)	0.9615 mg/L ( Rat ) 4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Phosphoric Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
·	classification results.	classification results.	classification results.

STOT -single exposure- source information

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	
Phosphoric Acid	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		
Phosphoric Acid Based on the NITE GHS classification results.		ication results.		

Serious eye damage/ irritation **Chemical Name** Serious eye damage/irritation source information Phosphoric Acid Based on the NITE GHS classification results.

Respiratory or skin sensitization

**Chemical Name** Respiratory or Skin sensitization source information Phosphoric Acid Based on the NITE GHS classification results.

Reproductive cell mutagenicity

germ cell mutagencity source information **Chemical Name** Based on the NITE GHS classification results. Phosphoric Acid Carcinogenicity

**Carcinogenicity source information Chemical Name** Based on the NITE GHS classification results. Phosphoric Acid

Reproductive toxicity

	Chemical Name	Reproductive toxicity source information	
Phosphoric Acid		Based on the NITE GHS classification results.	
,	STOT-single exposure		

Phosphoric Acid STOT-repeated exposure

OTOT-Tepeated exposure			
Chemical Name	STOT -repeated exposure- source information		
Phosphoric Acid	Based on the NITE GHS classification results.		

Aspiration hazard

Toph atten nazara		
Chemical Name	Aspiration Hazard source information	
Phosphoric Acid	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phosphoric Acid	N/A	LC50 : Oryzias latipes	N/A
-		75.1 ma/L 96 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
Phosphoric Acid	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

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

**Chemical Name** 

## **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

UN1805 **UN** number

Proper shipping name: Phosphoric acid, solution

**UN classfication** 

Subsidiary hazard class Packing group

Marine pollutant Not applicable

**IMDG** 

**UN** number UN1805

Proper shipping name: Phosphoric acid, solution

**UN classfication** 

Subsidiary hazard class

Packing group Ш

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN1805 **UN** number

Proper shipping name: Phosphoric acid, solution

**UN** classfication

Subsidiary hazard class

Packing group

**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 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Industrial Safety and Health Act (

2024~) Regulations for the carriage [2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

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

goods in ship

**Civil Aeronautics Law** 

Transport by Ship and Storage, Attached Table 1)

and storage of dangerous

Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

**Marine Pollution Prevention** 

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Not applicable **Export Trade Control Order** 

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-)
Phosphoric Acid 7664-38-2 ( 75.0 )	-	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 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**