



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 2.06

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hydrogen Peroxide	
Product Code	085-02856	
Supplier	FUJIFILM Wako Pure Chemical Corporation	lanan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

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

Recommended uses Food additives

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

## **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Category 2 **Oxidizing liquids Acute toxicity - Oral** Category 4 Category 4 **Acute toxicity - Dermal** Acute toxicity - Inhalation (Vapors) Category 3 Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Carcinogenicity Category 2 Specific target organ toxicity (single exposure) Category 1

Category 1 respiratory system

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 respiratory system

Acute aquatic toxicity Category 2

#### **Pictograms**



#### **Hazard statements**

H272 - May intensify fire; oxidizer

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

H351 - Suspected of causing cancer

H401 - Toxic to aquatic life

H370 - Causes damage to the following organs: respiratory system

H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system

#### **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
- Use only outdoors or in a well-ventilated area
- 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
- · Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep/Store away from clothing/ combustible materials
- Take any precaution to avoid mixing with combustibles

#### 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
Water	64.0 - 65.0	18.02	-	N/A	7732-18-5
Hydrogen Peroxide	35.0 - 36.0	34.01	(1)-419	*	7722-84-1

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.

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

## **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 or cover with dry earth, sand or other non-combustible material and transfer to containers

#### 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 reducing agents and combustible materials. Avoid contact with metal. Avoid contact with organic substance 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 Organic substance, Combustible materials, Reducing agent, 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
Hydrogen Peroxide	N/A	N/A	TWA: 1 ppm
7722-84-1			

Personal protective equipment

Respiratory protection Protective mask

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** 

ColorcolorlessTurbidityclearAppearanceliquid

Odorless or slight peculiar odor

Melting point/freezing point -11 °C
Boiling point, initial boiling point and boiling range 106 °C

Flammability no data available
Evaporation rate: no data available
Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
Decomposition temperature:
no data available
pH
no data available
Viscosity (coefficient of viscosity)
no data available
Dynamic viscosity
no data available

**Solubilities** water: miscible. ether: soluble.

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

Specific Gravity / Relative density 1.13

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

Organic substance, Combustible materials, Reducing agent, Metals

Hazardous decomposition products

No information available

# Section 11: TOXICOLOGICAL INFORMATION

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogen Peroxide	1518 mg/kg (Rat)	9200 mg/kg (Rabbit)	2000 mg/m <sup>3</sup> (Rat) 4 h

Chemical Name	_	Acute toxicity -dermal- source	,
	information	information	source information
,			Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Hydrogen Peroxide	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
Hydrogen Peroxide	Based on the NITE GHS classification results.
Serious eve damage/ irritation	

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Chemical Name	Serious eye damage/irritation source information
Hydrogen Peroxide	Based on the NITE GHS classification results.

#### Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Hydrogen Peroxide	Based on the NITE GHS classification results.

## Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Hydrogen Peroxide	Based on the NITE GHS classification results.

#### Carcinogenicity

Chemical Name	Carcinogenicity source information
Hydrogen Peroxide	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Hydrogen Peroxide	-	Group 3	A3	-
7722-84-1		1		

## Reproductive toxicity

Chemical Name	Reproductive toxicity source information		
Hydrogen Peroxide	Based on the NITE GHS classification results.		
CTOT single symposure			

STOT Single exposure	
Chemical Name	STOT -single exposure- source information
Hydrogen Peroxide	Based on the NITE GHS classification results.

## STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Hydrogen Peroxide	Based on the NITE GHS classification results.	

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
Hydrogen Peroxide	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrogen Peroxide	EC50 : Nitzschia sp.	LC50 : Oncorhynchus mykiss	EC50 : Daphnia magna
	0.85 mg/L 72 h	10.0 - 32.0 mg/L 96 h	18 - 32 mg/L 48 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	
Hydrogen Peroxide	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

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

## **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 UN2014

Proper shipping name: Hydrogen peroxide, aqueous solution

**UN classfication** 5.1 Subsidiary hazard class 8 Packing group

Not applicable Marine pollutant

**IMDG** 

UN2014 **UN** number

Proper shipping name: Hydrogen peroxide, aqueous solution

**UN classfication** 5.1 Subsidiary hazard class 8 Ш **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** 

UN2014 **UN** number

Proper shipping name: Hydrogen peroxide, aqueous solution

**UN classfication** Subsidiary hazard class 8 Packing group Ш

**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)

Dangerous Substances - Oxidizing Substance (Enforcement Order Attached Table 1

Item 3)

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

2024~)

Regulations for the carriage and storage of dangerous

Oxidizing Agents - Oxidizing Agents (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship **Civil Aeronautics Law** 

Oxidizing Agents - Oxidizing Agents (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 Y

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

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-)
Hydrogen Peroxide 7722-84-1 ( 35.0 - 36.0 )	Applicable	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**