

Hydrogen peroxide (30%)

Hayashi Pure Chemical Ind., Ltd.

Date of issue: 9/14/2009 Revision date: 9/19/2023 SDS code: N9-04K Version: 08

Safety Data Sheet

1. Chemical product and company identification

Product name : Hydrogen peroxide (30%)

SDS code : N9-04K

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

Emergency number : 06-6910-7305

Recommended use : For industrial use only.

Restrictions on use : Do not use on a human body or for animal medicines, foods, household

products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards Explosives classification not possible

Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification
Gases under pressure No classification

Flammable liquids classification not possible

Flammable solids No classification

Self-reactive substances and

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in contact with water emit flammable

gases

classification not possible

classification not possible

Oxidizing liquids Category 2
Oxidizing solids No classification

Organic peroxides classification not possible
Corrosive to metals classification not possible
Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) Category 4

Acute toxicity (dermal)

Acute toxicity (inhalation:gas)

Acute toxicity (inhalation:vapors)

Acute toxicity (inhalation:dust/mist)

Category 3

Acute toxicity (inhalation:dust/mist)

Category 2

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

Respiratory sensitization classification not possible
Skin sensitization classification not possible
Germ cell mutagenicity classification not possible

Carcinogenicity Category 2

Reproductive toxicity classification not possible
Specific target organ toxicity (single Category 1 (respiratory system)

exposure)

Specific target organ toxicity

(repeated exposure)

Aspiration hazard classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

No classification

Category 1

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS05



GHS06



Category 1 (respiratory system)



Signal word (GHS JP) : Danger

Hazard statements (GHS JP)

May intensify fire; oxidizer (H272) Harmful if swallowed (H302)

Toxic in contact with skin or if inhaled (H311+H331) Causes severe skin burns and eye damage (H314)

Fatal if inhaled (H330)

Suspected of causing cancer (H351)

Causes damage to organs (respiratory system) (H370)

Causes damage to organs (respiratory system) through prolonged or

repeated exposure (H372) Very toxic to aquatic life (H400)

Precautionary statements (GHS JP)

Prevention : Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Keep away from clothing and other combustible materials. (P220)

Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

[In case of inadequate ventilation] wear respiratory protection. (P284) IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Immediately call a POISON CENTER or doctor. (P310) Get medical advice/attention if you feel unwell. (P314)

Take off immediately all contaminated clothing and wash it before reuse.

(P361+P364)

In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Collect spillage. (P391)

Storage : Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store locked up. (P405)

Disposal : Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

Response

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CAS KIV
Hydrogen peroxide	About 30.0%	H2O2	(1)-419	Existing Chemical Substance	7722-84-1
Water	About 70.0%	H2O	-	-	7732-18-5

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

: Water spray

Unsuitable extinguishing media

Dry powder, Foam, Do not use a heavy water stream.

Fire hazard

This product is unburnable. May intensify fire; oxidizer.

Explosion hazard

Hazardous decomposition products

in case of fire

Firefighting instructions

May induce explosion of containers by heating.

In case of fire, product may produce irritative or toxic fumes/gases.

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up Clean up any spills as soon as possible, using an absorbent material to

collect it.

Collect leaking and spilled liquid in sealable containers as far as possible.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions Store locked up.

Store in a well-ventilated away from direct sunlight. Keep away from fire

and heat sources.

For a container, use a cap with a vent (do not seal completely). In the

case of a tank, establish a vent pipe.

Material used in

packaging/containers

Storage temperature

Internal pressure adjustment stopper container.

Technical measures Comply with applicable regulations. Cool and dark place

8. Exposure controls / Personal protection equipment

Exposure limit values	
Hydrogen peroxide	
Exposure limits (ACGIH)	TWA 1 ppm,STEL -
Appropriate engineering controls	: Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Gas mask for acid gases : Impervious protective gloves Hand protection

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles) Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state Liquid Appearance Liquid

Color colorless transparent Odor No data available рΗ No data available Melting point No data available Freezing point No data available **Boiling point** No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available

Relative density : No data available
Density : 1.11 g/cm³

Relative gas density : No data available Solubility : No data available Partition coefficient n- : No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : Decomposes on heating or the influence of light producing oxygen which

increases the risk of fire. It is a strong oxidizing agent and reacts with combustible substances and reducing substances, especially in the

presence of metals causing fire and explosion hazard. Reacts many organic

substances including fibers and paper.

Conditions to avoid : Sunlight, heat. Contact with combustible substances, reducing agents,

strong bases and metals.

Incompatible materials : Combustible substances, Reducing agents, Strong bases, Metals

Hazardous decomposition : Oxygen

products

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

As a product		
Acute toxicity (oral)	Category 4	
Acute toxicity (dermal)	Category 3	
Acute toxicity (inhalation)	vapors:Category 3	
	Gases:No classification	
	dust, mist:Category 2	
Skin corrosion/irritation	Category 1	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	Category 2	
Reproductive toxicity	classification not possible	
STOT-single exposure STOT-repeated exposure	Category 1 Category 1	
Aspiration hazard	classification not possible	
'	Classification flot possible	
Hydrogen peroxide		
Acute toxicity (oral)	Category 4	
Acute toxicity (dermal)	Category 3	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	Category 3	
Acute toxicity (inhalation:dust/mist)	Category 2	
Skin corrosion/irritation	Category 1	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	Category 2	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 1	
STOT-repeated exposure	Category 1	
Aspiration hazard	classification not possible	

Water		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	No classification	
Acute toxicity (inhalation:dust/mist)	No classification	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	No classification	
Respiratory sensitization	No classification	
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	No classification	
Reproductive toxicity	No classification	
STOT-single exposure	No classification	
STOT-repeated exposure	No classification	
Aspiration hazard	No classification	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

The information in this section is based on the GHS Classification Results by NTE.		
As a product		
Hazardous to the aquatic environment,	Category 1	
short-term (acute)		
Hazardous to the aquatic environment,	No classification	
long-term (chronic)		
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	
Hydrogen peroxide		
Hazardous to Aquatic Environment -	Category 1	
Acute Hazard		
Hazardous to Aquatic Environment -	No classification	
Chronic Hazard		
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	
Water		
Hazardous to Aquatic Environment - Acute Hazard	No classification	
Hazardous to Aquatic Environment -	No classification	
Chronic Hazard		
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and : Empty the packaging completely prior to disposal.

packaging Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) 2014

Proper Shipping Name (IMDG) HYDROGEN PEROXIDE, AQUEOUS SOLUTION

IBC02

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 5.1 (8)

Hazard labels (IMDG) 5.1,8 Class (IMDG) 5.1 Subsidiary hazard (IMDG) 8 Division (IMDG) 5 1 Packing instructions (IMDG) P504 Packing provisions (IMDG) PP10

IBC packing instructions (IMDG) IBC special provisions (IMDG) **B**5 Tank instructions (IMDG) **T7**

Tank special provisions (IMDG) TP2, TP6, TP24

Stowage category (IMDG)

Properties and observations (IMDG) Colourless liquid. Slowly decomposes, evolving oxygen; the rate of

decomposition increases in contact with metals, except aluminium. In contact with combustible material may cause fire or explosion. Causes burns to skin, eyes and mucous membranes. Even though stabilized,

these solutions may evolve oxygen.

MFAG-No 140

Air transport(IATA)

UN-No. (IATA) 2014

Proper Shipping Name (IATA) Hydrogen peroxide, aqueous solution

Packing group (IATA) Ш Transport hazard class(es) (IATA)

5.1 (8) Hazard labels (IATA) 5.1, 8 Class (IATA) 5.1 Subsidiary hazards (IATA) 8 Division (IATA) 5.1 F2

PCA Excepted quantities (IATA) PCA Limited quantities (IATA) Y540 PCA limited quantity max net 0.5L

quantity (IATA) PCA packing instructions (IATA) 550 PCA max net quantity (IATA) 1L CAO packing instructions (IATA) 554 CAO max net quantity (IATA) 5L ERG code (IATA) 5C

Marine pollutant Applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

140 MFAG-No

Special transport precautions When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Harmful Substances Whose Names Are to be Indicated on the Label Industrial Safety and Health Law

(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9)

Hydrogen peroxide (Ordinance number: 126)

Dangerous Substances - Oxidizing Substance (Enforcement Order

Attached Table 1 Item 3)

Japanese Poisonous and

Deleterious Substances Control Law

Preparations containing hydrogen peroxide. (except for preparations

which contain 6% or less of hydrogen peroxide)

Deleterious Substances (Designated Order Art.2)

Water Pollution Prevention Law Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Law Relating to Prevention of Marine Pollution and Maritime

Disasters

Fire Service Law

Foreign Exchange and Foreign Trade Control Act

Ship Safety Act

Civil Aeronautics Law

Port Regulation Law

Road Act

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Labor Standards Act

Not applicable

Noxious Liquid Substances - Category Y (Law Art.3(3), Enforcement

Order, Art.1-2, Attached Table No.1 Item 2)

Export Trade Control Ordinance appendix 1-16

Oxidizing substances and organic peroxides/Oxidizing substances (Dangerous Goods Notification Schedule first second and third Article

Dangerous Goods Regulations)

Oxidizing substances and organic peroxides/Oxidizing substances

(Hazardous materials notice Appended Table 1 Article 194 of the

Enforcement Regulations)

Oxidizing substances and organic peroxides/Oxidizing substances

(Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table

that defines the type of dangerous goods)

Restriction for Vehicle Traffic (Enforcement Order Art.19-13,

Publication of Japan Highway Pablic Corp.)

Not applicable

Chemical Substances Causing Occupational Illnesses (Act Art.75. Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification

No.36 of 1978)

16. Other information

Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. Data sources

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

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