

# 35W/V% Sodium hydrogensulfite solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/2/2020 Revision date: 8/24/2023 SDS code: RA-10 Version: 02

## Safety Data Sheet

## 1. Chemical product and company identification

**Product name** : 35W/V% Sodium hydrogensulfite solution

SDS code : RA-10

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

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 research and experimental 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

Health hazards

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

classification not possible classification not possible

Pyrophoric liquids classification no

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

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible
Corrosive to metals classification not possible
Desensitized explosives classification not possible
Acute toxicity (oral) classification not possible
Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapors) classification not possible
Acute toxicity (inhalation:dust/mist) classification not possible
Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation Category 2B

Respiratory sensitization classification not possible
Skin sensitization classification not possible
Germ cell mutagenicity classification not possible
Carcinogenicity classification not possible
Reproductive toxicity classification not possible

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

exposure)

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Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard

Hazardous to the aquatic

classification not possible classification not possible

Environmental hazards

environment, short-term (acute)

classification not possible

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

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)



GHS07

Signal word (GHS JP) Warning

Hazard statements (GHS JP) Causes eye irritation (H320)

May cause respiratory irritation (H335)

Precautionary statements (GHS JP)

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

Wash hands, forearms and face thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

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

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)

Call a POISON CENTER or doctor if you feel unwell. (P312) If eye irritation persists: Get medical advice/attention. (P337+P313)

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

(P403+P233)

Store locked up. (P405)

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

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

regulation. (P501)

# 3. Composition/information on ingredients

Distinction of substance or mixture

Name	Concentration or	Formula	Kanpo number		CAS RN
Hailie	Concentration range	Torritala	CSCL no	ISHL no	CAS KIN
Sodium hydrogen sulfite	About 28.2%	NaHSO3	(1)-502	Existing Chemical Substance	7631-90-5
Water	About 71.8%	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

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

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

Get immediate medical advice/attention.

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First-aid measures after ingestion Rinse mouth.

Get immediate medical advice/attention.

## 5. Fire fighting measures

Suitable extinguishing media

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Do not use a heavy water stream.

Hazardous decomposition products

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

in case of fire

Firefighting instructions

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.

Wear appropriate fire-resistant clothing including self contained-Protection during firefighting

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 place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Airtight container.

Technical measures Comply with applicable regulations.

Storage temperature Cool and dark place

## 8. Exposure controls / Personal protection equipment

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Exposure limit values	
Sodium hydrogen sulfite	
Exposure limits (ACGIH)	TWA 5 mg/m3,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
Hand protection	: Impervious protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)

: Impervious aprons, Impervious work clothing, Impervious long boots

# 9. Physical and chemical properties

Physical state Liquid Appearance Liquid

Skin and body protection

Color colorless transparent

Odor Irritating odor рΗ 3.9 (25℃)

Melting point No data available Freezing point No data available **Boiling point** No data available No data available Flash point 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 1.24 g/cm³ (20°C) Relative gas density No data available No data available Solubility Partition coefficient n-No data available

octanol/water (Log Pow)

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

## 10. Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal handling conditions.

Be a reducing agent, reacts with oxidizing agents. Reacts violently with Possibility of hazardous reactions

concentrated sodium nitrite solution. When in contact with acids, it

decomposes to evolve sulfur oxides.

Conditions to avoid Sunlight, heat. Contact with oxidizing agents, sodium nitrite and acids.

Incompatible materials Oxidizing agents, Sodium nitrite, Acids

Hazardous decomposition Sulfur oxides, Sodium oxides

products

# 11. Toxicological information

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

As a product		
Acute toxicity (oral)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (inhalation)	vapors:classification not possible	
	Gases:No classification	
	dust, mist:classification not possible	

As a product	
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure STOT-repeated exposure	Category 3 (Respiratory tract irritation.) classification not possible
Aspiration hazard	classification not possible
Sodium hydrogen sulfite	Classification flot possible
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (yas)  Acute toxicity (vapour)	classification not possible
Acute toxicity (vapour)  Acute toxicity (inhalation:dust/mist)	classification not possible
	· ·
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	classification not possible
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 NITE.		
As a product		
Hazardous to the aquatic environment, short-term (acute)	classification not possible	
Hazardous to the aquatic environment, long-term (chronic)	classification not possible	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	
Sodium hydrogen sulfite		
Hazardous to Aquatic Environment - Acute Hazard	classification not possible	

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Sodium hydrogen sulfite		
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible	
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 - Chronic Hazard	No classification	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone laver	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

packaging

Empty the packaging completely prior to disposal.

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) Not applicable Proper Shipping Name (IMDG) Not applicable Packing group (IMDG) Not applicable Transport hazard class(es) (IMDG) Not applicable

Air transport(IATA)

UN-No. (IATA) Not applicable Proper Shipping Name (IATA) Not applicable Not applicable Packing group (IATA) Transport hazard class(es) (IATA) Not applicable Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Not applicable Regulatory information by air Not applicable

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**

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

(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) Sodium bisulfite (Ordinance number: 26)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Fire Service Law Not applicable

Law Relating to Prevention of

Marine Pollution and Maritime

Disasters

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

Order, Art.1-2, Attached Table No.1 Item 3)

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Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Waterworks Law : Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

## 16. Other information

Data sources

: Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd.

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. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.