

# 0.1mol/L(N/10) Sodium thiosulfate solution

#### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 10/23/2008 Revision date: 6/11/2020 SDS code: F8-08 Version: 07.1

### **Safety Data Sheet**

### 1. Chemical product and company identification

**Product name** : 0.1mol/L(N/10) Sodium thiosulfate solution

SDS code : F8-08

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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**Emergency number** : 06-6910-7305

#### 2. Hazards identification

#### **GHS** classification

Physical hazards Desensitized eplosives classification not possible

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 classification not possible

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and

mixtures

classification not possible

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

Health hazards Acute toxicity (oral) No classification

Acute toxicity (dermal) No classification
Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapours) classification not possible

Acute toxicity (inhalation:dust/mist) No classification
Skin corrosion/irritation No classification
Serious eye damage/eye irritation No classification

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

exposure)

No classification

classification not possible

Specific target organ toxicity

(repeated exposure)

Aspiration hazard classification not possible

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Environmental hazards

Aquatic acute

No classification

Aquatic chronic

No classification

Hazardous to the ozone layer

classification not possible

# 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		040 511
			CSCL no	ISHL no	CAS RN
Sodium thiosulfate	About 1.56%	Na2S2O3	(1)-503	Existing Chemical Substance	7772-98-7
Sodium carbonate	About 0.02%	Na2CO3	(1)-164	Existing Chemical Substance	497-19-8
Water	About 98.42%	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 mass%, 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

· Do not u

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media
Hazardous decomposition products

in case of fire

Do not use a heavy water stream.

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

Firefighting instructions

fire at a stroke using appropriate fire-extinguishers.

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

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

places.

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

surrounding equipment, etc. to cool.

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 : 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

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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 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

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 : Protective mask

Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Impervious aprons, Impervious work clothing, Protective long boots

#### 9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid

Color : colorless transparent

Odor Odorless рΗ 10.3 (25°C) Melting point No data available Freezing point No data available Boiling point No data available No data available Flash point No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Specific gravity / density 1.01 g/cm<sup>3</sup> (20°C) Relative gas density No data available

Partition coefficient noctanol/water (Log Pow)

Solubility

No data available
No data available

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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 : Contact with acids generates harmful sulfur dioxide gas. May react with

oxidizing agents.

Conditions to avoid : Sunlight, heat. Contact with acids, oxidizing agents.

Incompatible materials : Acids, Oxidizing agents

Hazardous decomposition : Sulfur oxide

products

# 11. Toxicological information

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

As a product		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (inhalation)	Vapours:classification not possible	
	Gases:No classification	
Olivin a summa i au finnita ti au	dust, mist:No classification	
Skin corrosion/irritation	No classification No classification	
Serious eye damage/irritation 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	No classification	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	
Sodium thiosulfate		
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory sensitization	No data available	
Skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	
Sodium carbonate		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	Category 4	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	

Sodium carbonate		
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 3 (Narcosis) 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	

# 12. Ecological information

Aspiration hazard

No classification

The information in this section is based on the "GHS Classification Results" by NITE.		
As a product		
Aquatic acute	No classification	
Aquatic chronic	No classification	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	
Sodium thiosulfate		
Hazardous to Aquatic Environment - Acute Hazard	No data available	
Hazardous to Aquatic Environment - Chronic Hazard	No data available	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	No data available	
Sodium carbonate		
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 layer	No data available	
Water		
Hazardous to Aquatic Environment - Acute Hazard	No classification	
Hazardous to Aquatic Environment - Chronic Hazard	No classification	

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Water		
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

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
Packing group (IATA) : Not applicable
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 : Not applicable Japanese Poisonous and : Not applicable Deleterious Substances Control Law

Fire Service Law

Law Relating to Prevention of Marine Pollution and Maritime

Disasters

Not applicable

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

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

Foreign Exchange and Foreign

Trade Control Act Waterworks Law Export Trade Control Ordinance appendix 1-16

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

Water Quality (Ministry Order No.101of 2003,)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

#### 16. Other information

Data sources : Handbook of 17120 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).

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

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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.