

## **Gram stain solution No.2**

# Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/7/2009 Revision date: 11/27/2023 SDS code: N7-17 Version: 08

## Safety Data Sheet

# 1. Chemical product and company identification

Gram stain solution No.2 **Product name** 

SDS code N7-17

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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**Emergency number** 06-6910-7305

Recommended use For research and experimental use only.

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

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 classification not possible

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 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) Category 4 Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation classification not possible

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 Category 1B Reproductive toxicity (effects on or Additional category

via lactation)

Specific target organ toxicity (single No classification

exposure)

Specific target organ toxicity

(repeated exposure) Aspiration hazard

No classification

classification not possible

Environmental Hazardous to the aquatic hazards

environment, short-term (acute)

Category 3

Hazardous to the aquatic

environment, long-term (chronic)

Category 3

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS07

Signal word (GHS JP) Danger

Hazard statements (GHS JP) Harmful if inhaled (H332)

May damage fertility or the unborn child (H360) May cause harm to breast-fed children (H362) Harmful to aquatic life with long lasting effects (H412)

Precautionary statements (GHS JP)

Prevention Obtain special instructions before use. (P201)

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

(P202)

Do not breathe dust/fume/gas/mist/vapors/spray. (P260) Avoid contact during pregnancy and while nursing. (P263) 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)

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

breathing (P304+P340)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

Call a POISON CENTER or doctor if you feel unwell. (P312)

Storage 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)

# 3. Composition/information on ingredients

Distinction of substance or mixture Mixture

Synonyms Lugol's solution

Name	Concentration or Concentration range	Formula	Kanpo number		
			CSCL no	ISHL no	CAS RN
lodine	About 0.33%	1	Excluded (element)	ı	7553-56-2
Potassium iodide	About 0.66%	KI	(1)-439	Existing Chemical Substance	7681-11-0
Water	About 99.01%	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

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Juliu

Do not use a heavy water stream.

Hazardous decomposition products

in case of fire

Firefighting instructions

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.

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.

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**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.

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Material used in

packaging/containers

: Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

# 8. Exposure controls / Personal protection equipment

Exposure limit values				
lodine				
Exposure limits (JSOH)	0.1ppm(1mg/m3)			
Exposure limits (ACGIH)	TWA 0.01 ppm(IFV),STEL 0.1 ppm (V)			
Potassium iodide				
Exposure limits (ACGIH)	TWA 0.01 ppm(IFV),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 halogen gases
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, Impervious long boots

# 9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Color : brown
Odor : Odorless

рΗ No data available Melting point No data available Freezing point No data available No data available Boiling point Flash point No data available 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 Density 1.00 g/cm³ (20°C) 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 : Reacts with strong acids, strong oxidizing agents and metals.

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

metals.

Incompatible materials : Strong acids, Strong oxidizing agents, Metals

Hazardous decomposition products

: Iodine compounds, Potassium oxides

# 11. Toxicological information

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

	I 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:Category 4 Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	No classification
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible classification not possible
Germ cell mutagenicity Carcinogenicity	classification not possible
Reproductive toxicity	Category 1B
STOT-single exposure	No classification
STOT-repeated exposure	No classification
Aspiration hazard	classification not possible
lodine	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	Category 1
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	Category 1
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	Category 1
Aspiration hazard	classification not possible
Potassium iodide	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
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	Category 1B
STOT-single exposure	Category 1
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Water	
Water Acute toxicity (oral)	No classification
	No classification No classification
Acute toxicity (oral)	

Water		
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.

As a product Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) Persistence and degradability No data available Bioaccumulative potential No data available Ozone classification not possible  No data available Ozone  Category 3 No data available No data available Ozone  Category 1 Categor	The information in this section is based on the "GHS Classification Results" by NITE.				
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•	Persistence and degradability	No data available			
	Bioaccumulative potential	No data available			
Mobility in soil No data available	Mobility in soil	No data available			
Hazardous to the ozone layer classification not possible	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 : Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

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

lodine and its compounds (Ordinance number: 606)

Revision date: 11/27/2023

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Not applicable

Fire Service Law

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Labor Standards Act

Not applicable

ct : 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

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.