

# 1mol/L(1N) Potassium iodide solution

## Hayashi Pure Chemical Ind.,Ltd.

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## Safety Data Sheet

# 1. Chemical product and company identification

1mol/L(1N) Potassium iodide solution **Product name** 

SDS code J5-04

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

classification not possible

mixtures

Substances and mixtures which in contact with water emit flammable

gases

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) No classification

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 Category 1B Reproductive toxicity (effects on or Additional category

via lactation)

Specific target organ toxicity (single Category 1 (thyroid gland)

exposure)

Specific target organ toxicity Category 1 (Skin, thyroid gland, systemic toxicity)

(repeated exposure)

Aspiration hazard classification not possible Hazardous to the aquatic classification not possible

hazards environment, short-term (acute)

Hazardous to the aquatic classification not possible environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Environmental



Signal word (GHS JP) : Danger

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

May damage fertility or the unborn child (H360) May cause harm to breast-fed children (H362) Causes damage to organs (thyroid gland) (H370)

Causes damage to organs (Skin, thyroid gland, systemic toxicity) through

prolonged or repeated exposure (H372)

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)

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

(P280)

Response : 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)

Get medical advice/attention if you feel unwell. (P314)

If eye irritation persists: Get medical advice/attention. (P337+P313)

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

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CASKI
Potassium iodide	About 14.9%	КІ	(1)-439	Existing Chemical Substance	7681-11-0
Water	About 85.1%	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 eve

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.

Rinse mouth. First-aid measures after ingestion

Get immediate medical advice/attention.

Do not use a heavy water stream.

# 5. Fire fighting measures

Suitable extinguishing media

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

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.

#### 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

: Light shielding 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, Impervious long boots

# 9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid

Color : colorless ~ brown

Odor : Odorless

pΗ 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 No data available Vapor pressure No data available Relative density No data available Density 1.12 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. The color may change to yellow or

brown due to free iodine.

Possibility of hazardous reactions : May react with oxidizing agents and reducing agents.

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

Incompatible materials : Oxidizing agents, Reducing agents

Hazardous decomposition

products

lodine compounds

# 11. Toxicological information

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

As a product				
•	elassification not possible			
Acute toxicity (oral) Acute toxicity (dermal)	classification not possible classification not possible			
Acute toxicity (dermar)  Acute toxicity (inhalation)	vapors:No classification			
Acute toxicity (imidiation)	Gases:No classification			
	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 STOT-repeated exposure	Category 1 Category 1			
Aspiration hazard	classification not possible			
	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	·			
Acute toxicity (oral)	No classification			
Acute toxicity (dermal)	No classification			
Acute toxicity (derinal)  Acute toxicity (gas)	No classification			
	No classification			
Acute toxicity (vapour)				
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,	classification not possible			
short-term (acute)				

As a product	
Hazardous to the aquatic environment,	classification not possible
long-term (chronic)	
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Potassium iodide	
Hazardous to Aquatic Environment - Acute Hazard	classification not possible
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 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) 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

Regulations in Japan

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

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

Not applicable

## 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)

Dangerous or Harmful Substances for Notification of Chemical Name

etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2)

lodine and its compounds

Japanese Poisonous and

Deleterious Substances Control Law

: Not applicable

Fire Service Law

Law Relating to Prevention of Marine Pollution and Maritime

Disasters

Not applicable

Noxious Liquid Substances - Equivalent to Category Y (Ministry of

Environment Nortification, Item 148, Item 2)

Foreign Exchange and Foreign

Trade Control Act

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Export Trade Control Ordinance appendix 1-16

Not applicable

## 16. Other information

Data sources : Handbook of 17524 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.