

# 0.02mol/L(N/50) Potassium chloride solution

Hayashi Pure Chemical Ind.,Ltd.

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SDS code: A1-20

Version: 04.1

## Safety Data Sheet

## 1. Chemical product and company identification

Product name SDS code	:	0.02mol/L(N/50) Potassium chloride solution A1-20
	oma lan bc-j	ichi, Chuo-ku, Osaka, Osaka, Japan ning Group, Reagent & Chemical Product Department
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 mixtures	classification not possible
	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:vapors)	No classification
	Acute toxicity (inhalation:dust/mist)	No classification
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	No classification
	Respiratory sensitization	No classification
	Skin sensitization	No classification
	Germ cell mutagenicity	No classification
	Carcinogenicity	No classification
	Reproductive toxicity	No classification
	Specific target organ toxicity (single exposure)	No classification
	Specific target organ toxicity (repeated exposure)	No classification
	Aspiration hazard	No classification

Environmental hazards

Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) Hazardous to the ozone layer

No classification

No classification

classification not possible

### 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

	Concentration or		Kanpo		
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN
Potassium chloride	0.14-0.15%	KCI	(1)-228	Existing Chemical Substance	7447-40-7
Water	99.85-99.86%	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	:	Remove/Take off immediately all contaminated clothing.
contact		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	:	Do not use a heavy water stream.
Hazardous decomposition products in case of fire	:	In case of fire, product may produce irritative or toxic fumes/gases.
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.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

### 6. Accidental release measures

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 Contai	nm	ent 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 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
рН	:	5.6 (25°C)
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 g/cm³ (20°C)
Relative gas density	:	No data available
Solubility	:	No data available
Partition coefficient n- octanol/water (Log Pow)	:	No data available
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 and strong oxidizing agents. Decomposes when heating, stimulative or poisonous fume/gas may be generated.
Conditions to avoid	:	Sunlight, heat. Contact with strong acids and strong oxidizing agents.
Incompatible materials	:	Strong acids, Strong oxidizing agents
Hazardous decomposition products	:	Chlorine, Potassium oxide

## 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)	vapors:No classification	
	Gases:No classification	
Ohim an una sign finnita tian	dust, mist:No classification	
Skin corrosion/irritation Serious eye damage/irritation	No classification 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	
Potassium chloride		
Acute toxicity (oral)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	classification not possible	
Acute toxicity (vapour)	No classification	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	classification not possible	
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	classification not possible	
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	

Water	
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)	No classification				
Hazardous to the aquatic environment, long-term (chronic)	No classification				
Persistence and degradability	No data available				
Bioaccumulative potential	No data available				
Mobility in soil	No data available				
Ozone	classification not possible				
Potassium chloride					
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 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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG)

#### Air transport(IATA)

UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA)

#### Marine pollutant

#### **Regulations in Japan**

Regulatory information by sea Regulatory information by air **Special transport precautions** 

: Not applicable

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: Not applicable

: 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

:	Not applicable
:	Not applicable
:	Not applicable
:	Non-hazardous Substances (Law Art.3,(4), Enforcement Order, Art.1- 3, Attached Table No.1-2)
:	Export Trade Control Ordinance appendix 1-16
:	Not applicable
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## 16. Other information

Data sources	ernational Chemical Safe tional Institute of Techno	cal Products, The Chemical Daily Co, Ltd. ety Cards. ology and Evaluation (NITE). e Guidebook (ERG 2016).
Other information	s Safety Data Sheet is in erators who handle chen duct and is not intended ta Sheet does not verify emical substance in the known danger constantly product shall be used in er with the highest priorit posal. When the relevan h/herself shall collect safe d regulations at the place ostance is actually used mpany shall take no responsibility. In the event to other languages exist, or to all other documents	aterial of Hayashi Pure Chemical Ind, Ltd. Intended to be provided for business nical substance products of the relevant to assure safety in any way. The Safety all the information on the applicable present time. With the recognition in that y exists in the relevant chemical substance, in the principle of self-responsibility of the y to safety from transport and unpacking to it chemical substance is used, the user ety information and shall investigate laws e, organizations, countries, etc. where the and give the highest priority to them. The ponsibility for investigating state and local hall handle this problem on his/her own that SDS in Japanese and SDS translated the document described in Japanese is a whether or not there is any difference in n other languages shall be references.