

3mol/L Potassium chloride solution

Hayashi Pure Chemical Ind.,Ltd. Revision date: 6/27/2024

Date of issue: 4/9/2010

SDS code: I3-06

Version: 05

Safety Data Sheet

1. Chemical product and company identification

Product name	: 3mol/L Potassium chloride solution
SDS code	: 13-06
Company/undertaking identification HAYASHI PURE CHEMIC Address : 3-2-12 Uchihira Telephone : 06-6910-730 E-mail : shiyaku_kikaku@ URL : https://www.hpc-j.c	machi, Chuo-ku, Osaka, Osaka, Japan pc-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

Physical hazards	Desensitized explosives	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)	classification not possible
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	classification not possible
	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	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
	Specific target organ toxicity (single exposure)	classification not possible

	Specific target organ toxicity (repeated exposure)	classification not possible
	Aspiration hazard	classification not possible
Environmental hazards	Hazardous to the aquatic environment, short-term (acute)	classification not possible
	Hazardous to the aquatic environment, long-term (chronic)	classification not possible
	Hazardous to the ozone layer	classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	Tornula	CSCL no	ISHL no	
Potassium chloride	About 19.8%	KCI	(1)-228	Existing Chemical Substance	7447-40-7
Water	About 80.2%	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	:	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		
Sultable extilliguishing media		Use proper extinguishing media depending on peripheral fire.
Unsuitable extinguishing media		Use proper extinguishing media depending on peripheral fire. Do not use a heavy water stream.
0 0	:	
Unsuitable extinguishing media Hazardous decomposition products	:	Do not use a heavy water stream.

		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	Equ	ipment 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

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, Impervious long boots

9. Physical and chemical properties

		•
Physical state	:	Liquid
Appearance	:	Liquid
Color	:	colorless transparent
Odor	:	Odorless
рН	:	5.4 (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	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.13 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.
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 oxides

11. Toxicological 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			
Acute toxicity (oral)	classification not possible		
Acute toxicity (dermal)	classification not possible		
Acute toxicity (inhalation)	vapors:classification not possible		
	Gases:classification not possible		
Skin corrosion/irritation	dust, mist:classification not possible classification not possible		
Skin conosion/initiation 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		
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		

Water	
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)	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		
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)		N

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 Regulatory information by air Special transport precautions	: : :	Not applicable 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		
Industrial Safety and Health Law	:	Not applicable
Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable
Fire Service Law	:	Not applicable
Law Relating to Prevention of Marine Pollution and Maritime Disasters	:	Harmless Substances (Enforcement Order, Art. Appended Table 1-2)
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16

Not applicable

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

16. Other information

Data sources

Other information

- 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).
- 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.