

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 9/12/2008Revision date: 6/30/2023SDS code: D1-04Version: 08

# Safety Data Sheet

## 1. Chemical product and company identification

Product name SDS code	:	0.1mol/L(N/10) Potassium hydroxide solution, ethanolic D1-04
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.jj	ma oc-j.	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number Recommended use Restrictions on use	::	06-6910-7305 For research and experimental use only. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

# 2. Hazards identification

### **GHS** classification

Physical hazards	Explosives Flammable gases Aerosol	classification not possible No classification classification not possible
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	Category 2
	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	Category 1
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	No classification
	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	Category 1
	Serious eye damage/eye irritation	Category 1
	Respiratory sensitization	classification not possible
	Skin sensitization	classification not possible
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1A
	Specific target organ toxicity (single exposure)	Category 3 (Narcosis)

	Specific target o exposure)	rgan toxicity (single	Category 3 (Res	piratory tract irritation.)
	Specific target o (repeated expos		Category 1 (liver	)
	Specific target o (repeated expos	rgan toxicity	Category 2 (cen	tral nervous system)
	Aspiration hazar	-	classification not	t possible
Environmental hazards	Hazardous to the environment, sh		classification not	t possible
	Hazardous to th	e aquatic	classification not	t possible
	Hazardous to the	ng-term (chronic) e ozone layer	classification not	t possible
Hazard pictograms (GHS JP)				
		$\checkmark$		
	GHS02		S07 GHS	308
Signal word (GHS JP) Hazard statements (G		Danger Highly flammable	liquid and vapor (	H225)
		May be corrosive	to metals (H290)	
		Causes severe sl May cause respir	atory irritation (H3	
		May cause drows May cause cance	iness or dizziness r (H350)	(H336)
		May damage ferti	lity or the unborn of	child (H360) rough prolonged or repeated exposure
		(H372)		
		May cause dama or repeated expos		ral nervous system) through prolonged
Precautionary stateme	ents (GHS JP)			
Prevention	:	Obtain special ins Do not handle un (P202)		se. (P201) utions have been read and understood.
		sources. No smol		, sparks, open flames and other ignition
		Ground and bond	container and rec	eiving equipment. (P240)
		Use only non-spa	rking tools. (P242	
		Take action to pre Do not breathe du		rges. (P243) vapors/spray. (P260)
		Wash hands, fore	arms and face the	broughly after handling. (P264) ing this product. (P270)
		Use only outdoors	s or in a well-venti	lated area. (P271)
		(P280)	loves/protective c	lothing/eye protection/face protection.
Response	:	IF SWALLOWED (P301+P330+P33		NOT induce vomiting.
		IF ON SKIN (or h	air): Take off imme	ediately all contaminated clothing.
			nove person to fre	sh air and keep comfortable for
		breathing (P304+ IF IN EYES: Rins		vater for several minutes. Remove
		contact lenses, if (P305+P351+P33		to do. Continue rinsing.
		IF exposed or cor	ncerned: Get medi	cal advice/attention. (P308+P313) R or doctor. (P310)
		Get medical advid	e/attention if you	feel unwell. (P314)
			se specify approp	iate media to extinguish. (P370+P378)
Storage		Absorb spillage to	prevent material-	
Storage		(P403+P233)		
		Store in a well-ve	ntilated place. Kee	ep cool. (P403+P235)

Store locked up. (P405)

Disposal

Store in corrosive resistant container with a resistant inner liner. (P406) 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

	Concentration or		Kanpo		
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN
Potassium hydroxide	About 0.69%	КОН	(1)-369	Existing Chemical Substance	1310-58-3
Ethanol	About 92.81%	С2Н5ОН	(2)-202	Existing Chemical Substance	64-17-5
Water	About 6.5%	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	:	Do NOT induce vomiting.
		Drink plenty of water.
		Rinse mouth.
		Get immediate medical advice/attention.

## 5. Fire fighting measures

Suitable extinguishing media	:	Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Fire hazard	:	Highly flammable liquid and vapor.
Explosion hazard	:	Danger of the steam explosion in indoor, outdoor, sewer.
		May induce explosion of containers by heating.
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.
		Even after extinguishing fire, thoroughly cool containers by using plenty of water.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

## 6. Accidental release measures

o. Accidental release measu	
Personal Precautions, Protective Equ	ipment 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 Containr	nent 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.

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.
		Take precautionary measures against static discharge.
		Use explosion-proof equipment.
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.
		Store in corrosive resistant container with a resistant inner liner.
Material used in	:	Light shielding airtight container.
packaging/containers		Storage prohibition in glass or porcelain container.
Technical measures	:	Comply with applicable regulations.
Storage temperature	:	Cool and dark place

# 8. Exposure controls / Personal protection equipment

Exposure limit values	
Potassium hydroxide	
Exposure limits (JSOH)	[Ceiling]2mg/m3
Exposure limits (ACGIH)	TWA -,STEL C 2 mg/m3
Ethanol	
Exposure limits (ACGIH)	TWA -,STEL 1000 ppm
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 organic 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	:	colorless
Odor	:	characteristic odor
рН	:	≥ 13 (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	:	0.82 g/cm <sup>3</sup> (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. Shows hygroscopicity. Crystal precipitation and solution coloring may occur during storage. Vapors mix well with air and easy to form explosive mixtures.
Possibility of hazardous reactions	:	Reacts with oxidizing agents to pose a risk of fire and explosion.
Conditions to avoid	:	Sunlight, heat. Ignition sources such as spark, flame and static electricity. Contact with combustible substances, reducing substances, oxidizing agents, strong acids and metals.
Incompatible materials	:	Combustible substances, Reducing substances, Oxidizing agents, Strong acids, Metals
Hazardous decomposition products	:	No data available

# **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)	classification not possible
Acute toxicity (inhalation)	vapors:No classification
	Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1A
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	Category 1 Category 2
Aspiration hazard	classification not possible
Potassium hydroxide	
Acute toxicity (oral)	Category 3
Acute toxicity (dermal)	classification not possible

Potassium hydroxideAcute toxicity (gas)No classificationAcute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationCategory 1Serious eye damage/irritationCategory 1Respiratory sensitizationclassification not possibleSkin sensitizationclassification not possibleSkin sensitizationclassification not possibleGerm cell mutagenicityclassification not possibleCarcinogenicityclassification not possibleReproductive toxicityclassification not possibleSTOT-single exposureCategory 1STOT-repeated exposureCategory 1STOT-repeated exposureCategory 1Aspiration hazardCategory 1Acute toxicity (oral)No classificationAcute toxicity (dermal)No classification	
Acute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationCategory 1Serious eye damage/irritationCategory 1Respiratory sensitizationclassification not possibleSkin sensitizationclassification not possibleGerm cell mutagenicityclassification not possibleCarcinogenicityclassification not possibleReproductive toxicityclassification not possibleSTOT-single exposureCategory 1STOT-repeated exposureCategory 1Aspiration hazardCategory 1EthanolNo classificationAcute toxicity (oral)No classificationAcute toxicity (dermal)No classification	
Acute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationCategory 1Serious eye damage/irritationCategory 1Respiratory sensitizationclassification not possibleSkin sensitizationclassification not possibleGerm cell mutagenicityclassification not possibleCarcinogenicityclassification not possibleReproductive toxicityclassification not possibleSTOT-single exposureCategory 1STOT-repeated exposureCategory 1STOT-repeated exposureCategory 1Aspiration hazardCategory 1EthanolNo classificationAcute toxicity (oral)No classificationAcute toxicity (dermal)No classification	
Skin corrosion/irritationCategory 1Serious eye damage/irritationCategory 1Respiratory sensitizationclassification not possibleSkin sensitizationclassification not possibleGerm cell mutagenicityclassification not possibleCarcinogenicityclassification not possibleReproductive toxicityclassification not possibleSTOT-single exposureCategory 1STOT-repeated exposureCategory 1Aspiration hazardCategory 1EthanolNo classificationAcute toxicity (oral)No classificationAcute toxicity (dermal)No classification	
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STOT-single exposure     Category 1       STOT-repeated exposure     Category 1       Aspiration hazard     Category 1       Ethanol     No classification       Acute toxicity (oral)     No classification       Acute toxicity (dermal)     No classification	
STOT-repeated exposure     Category 1       Aspiration hazard     Category 1       Ethanol     Category 1       Acute toxicity (oral)     No classification       Acute toxicity (dermal)     No classification	
Aspiration hazard     Category 1       Ethanol     No classification       Acute toxicity (oral)     No classification       Acute toxicity (dermal)     No classification	
Ethanol       Acute toxicity (oral)     No classification       Acute toxicity (dermal)     No classification	
Acute toxicity (oral)     No classification       Acute toxicity (dermal)     No classification	
Acute toxicity (dermal) No classification	
Acute toxicity (dermal) No classification	
Acute toxicity (gas) No classification	
Acute toxicity (vapour) No classification	
Acute toxicity (inhalation:dust/mist) classification not possible	
Skin corrosion/irritation No classification	
Serious eye damage/irritation Category 2B	
Respiratory sensitization classification not possible	
Skin sensitization classification not possible	
Germ cell mutagenicity classification not possible	
Carcinogenicity Category 1A	
Reproductive toxicity Category 1A	
STOT-single exposure Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure Category 1 Category 2	
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	
Aspiration hazard No classification	

## **12. Ecological information**

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

classification not possible
classification not possible
No data available

As a product				
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
Potassium hydroxide				
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			
Ethanol				
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			
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)	:	2924
Proper Shipping Name (IMDG)	:	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Packing group (IMDG)	:	II
Transport hazard class(es) (IMDG)	:	3 (8)
Hazard labels (IMDG)	:	3,8
Class (IMDG)	:	3
Subsidiary hazard (IMDG)	:	8
Special provision (IMDG)	:	274
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T11
Tank special provisions (IMDG)	:	TP2, TP27
Stowage category (IMDG)	:	В
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.
MFAG-No	:	132
Air transport(IATA)		
UN-No. (IATA)	:	2924

Proper Shipping Name (IATA) Packing group (IATA)	: Flammable liquid, corrosive, n.o.s. : II
Transport hazard class(es) (IATA)	: 3 (8)
Hazard labels (IATA)	3, 8
Class (IATA)	: 3
Subsidiary hazards (IATA)	: 8
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y340
PCA limited quantity max net	: 0.5L
quantity (IATA) PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 363
CAO max net quantity (IATA)	: 5L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 3CH
Marine pollutant	: Not applicable
Regulations in Japan	
Regulatory information by sea	: Conform to the provisions of the Ship Safety Law.
Regulatory information by air	: Conform to the provisions of the Civil Aeronautics Law.
MFAG-No Special transport precautions	<ul> <li>132</li> <li>When transporting, load containers so that they do not tip over,</li> </ul>
opecial transport precautions	damage, drop or collapse. Make sure there is no leak in containers.
15. Regulatory information	
National law	
Industrial Safety and Health Law	: Harmful Substances Whose Names Are to be Indicated on the Label
	(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,
	Attached Table No.9)
	Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2
	Item 1, Item 2, Attached Table No.9) Ethanol (Ordinance number : 61)
	Dangerous Substances - Flammable Substance (Enforcement Order
	Attached Table 1 Item 4)
	Corrosive Liquids (Ordinance on Industrial Safety and Health Law Art.
	326)
Japanese Poisonous and	: Not applicable
Deleterious Substances Control Law	Design stad Obarriad Ordertages (Law Article O. Dersonadh A
Water Pollution Prevention Law	: Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)
Fire Service Law	: Group 4 - Flammable liquids - Alcohols (Law Art.2 Para.7, Attached
	Table 1, Group 4)
Air Pollution Control Law	: Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice
	to Prefectures)
Law Relating to Prevention of Marine Pollution and Maritime	: Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement
Disasters	Order, Art.1-2, Attached Table No.1 Item 3)
Foreign Exchange and Foreign	: Export Trade Control Ordinance appendix 1-16
Trade Control Act	
Ship Safety Act	: Flammable liquids (Dangerous Goods Notification Schedule first
	second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	: Flammable liquids (Hazardous materials notice Appended Table 1
	Article 194 of the Enforcement Regulations)
Port Regulation Law	: Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule,
	notice attached table that defines the type of dangerous goods)
Road Act	: Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Pablic Corp.)
Waste Management on Public	: Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment
Cleansing Law	Order Art.2-4)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	: Not applicable
Labor Standards Act	: 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.