

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/12/2019 Revision date: 6/7/2023 SDS code: BA-12

ode: BA-12 Version: 04

# Safety Data Sheet

### 1. Chemical product and company identification

	-	
Product name	:	0.04W/V% Phenolphthalein · ethanol solution
SDS code	:	BA-12
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirand Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.j	oma oc-j.	chi, Chuo-ku, Osaka, Osaka, Japan
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

GIIS classification		
Physical hazards	Explosives	No classification
	Flammable gases	No classification
	Aerosol	No classification
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	Category 2
	Flammable solids	No classification
	Self-reactive substances and mixtures	No classification
	Pyrophoric liquids	No classification
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	classification not possible
	Substances and mixtures which in contact with water emit flammable gases	No classification
	Oxidizing liquids	No classification
	Oxidizing solids	No classification
	Organic peroxides	No classification
	Corrosive to metals	classification not possible
	Desensitized explosives	classification not possible
Health hazards	Acute toxicity (oral)	classification not possible
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	No classification
	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	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
	Specific target organ toxicity (single exposure)	Category 3 (Narcosis)

	Specific target organ toxicity (single	e Category 3 (Respiratory tract irritation.)
	exposure) Specific target organ toxicity (repeated exposure)	Category 1 (liver)
	Specific target organ toxicity (repeated exposure)	Category 2 (central nervous system)
	Aspiration hazard	classification not possible
Environmental hazards	Hazardous to the aquatic environment, short-term (acute)	classification not possible
	Hazardous to the aquatic	classification not possible
	environment, long-term (chronic) Hazardous to the ozone layer	classification not possible
Hazard pictograms (GHS JP)		
	GHS02 GHS07 O	GHS08
Signal word (GHS JP)	: Danger	
Hazard statements (G	Causes eye irrit May cause resp May cause drow May cause cand May damage fe Causes damage (H372)	biratory irritation (H335) wsiness or dizziness (H336) cer (H350) rtility or the unborn child (H360) e to organs (liver) through prolonged or repeated exposure hage to organs (central nervous system) through prolonged
Precautionary stateme		
Prevention	Do not handle u (P202) Keep away from sources. No sm Ground and bor Use explosion-p Use only non-sp Take action to p Do not breathe Wash hands, fo Do not eat, drini Use only outdoo Wear protective (P280)	nd container and receiving equipment. (P240) proof electrical/ventilating/lighting equipment. (P241) parking tools. (P242) prevent static discharges. (P243) dust/fume/gas/mist/vapors/spray. (P260) rearms and face thoroughly after handling. (P264) k or smoke when using this product. (P270) pros or in a well-ventilated area. (P271) e gloves/protective clothing/eye protection/face protection.
Response	Rinse skin with IF INHALED: Re breathing (P304 IF IN EYES: Rir contact lenses, (P305+P351+P IF exposed or c Get medical adv If eye irritation p	nse cautiously with water for several minutes. Remove if present and easy to do. Continue rinsing.
Storage	: Store in a well-v (P403+P233)	ventilated place. Keep container tightly closed. ventilated place. Keep cool. (P403+P235)
Disposal		ents/container to hazardous or special waste collection ance with local, regional, national and/or international 01)

# 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	i ormula	CSCL no	ISHL no	
Phenolphthalein	About 0.05%	C20H14O4	(9)-1152	Existing Chemical Substance	77-09-8
Ethanol	≧99%	C2H5OH	(2)-202	Existing Chemical Substance	64-17-5

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	:	Do NOT induce vomiting. 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	:	Extremely 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

Personal Precautions, Protective E	qu	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 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		

### 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.
		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.
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	
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	: Liq	uid
Appearance	: Liq	uid
Color	: col	orless transparent
Odor	: cha	aracteristic odor
рН	: No	data available
Melting point	: No	data available
Freezing point	: No	data available
Boiling point	: 78.	3 °C (as ethanol)
Flash point	: 12.	8 °C (as ethanol)
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	:	0.79 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 oxidizing agents to pose a risk of fire and explosion.
Conditions to avoid	:	Sunlight, moisture, heat. Ignition souces such as spark, flame and static electricity. Contact with strong oxidizing agents.
Incompatible materials	:	Strong oxidizing agents
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)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (inhalation)	vapors:classification not possible	
	Gases:No classification	
Chin comparing (imitation	dust, mist:classification not possible	
Skin corrosion/irritation Serious eye damage/irritation	classification not possible 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	
Phenolphthalein		
Acute toxicity (oral)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
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	Category 2	
Carcinogenicity	Category 2	
Reproductive toxicity	Category 1B	
STOT-single exposure	classification not possible	
STOT-repeated exposure	Category 1	
Aspiration hazard	classification not possible	
Ethanol		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	

Ethanol	
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

## 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)	
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
Phenolphthalein	
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	No data available
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

# 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**

UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.

Packing group (IMDG) Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: II : 3 : 3
Class (IMDG)	: 3
Special provision (IMDG) Limited quantities (IMDG)	: 274 : 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG) Tank instructions (IMDG)	: IBC02 : T7
Tank special provisions (IMDG)	: TP1, TP28, TP8
Stowage category (IMDG) MFAG-No	: B : 127
Air transport(IATA)	. 121
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Packing group (IATA) Transport hazard class(es) (IATA)	: II : 3
Hazard labels (IATA)	: 3
	: 3
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: E2 : Y341
PCA limited quantity max net	: 1L
quantity (IATA) PCA packing instructions (IATA)	: 353
DCA may not quantity (IATA)	: 5L
CAO packing instructions (IATA) CAO max net quantity (IATA)	: 364 : 60L
Special provision (IATA)	: A3
	: 3H
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>127</li> <li>When transporting, load containers so that they do not tip over,</li> </ul>
	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)
Japanese Poisonous and Deleterious Substances Control Law	: Not applicable
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)
Foreign Exchange and Foreign Trade Control Act	: Export Trade Control Ordinance appendix 1-16
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 Cleansing Law Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Order Art.2-4) Not applicable
<b>16. Other information</b> Data sources	:	Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE).

Other information

International Chemical Safety Cards.
National Institute of Technology and Evaluation (NITE).
2020 Emergency Response Guidebook (ERG 2020).
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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.