

5W/V% Phenolphthalein ethanol solution

Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Product name 5W/V% Phenolphthalein ethanol solution

SDS code M1-17

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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06-6910-7305 **Emergency number**

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

Health hazards

Physical hazards **Explosives** No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Category 2 Flammable liquids Flammable solids No classification Self-reactive substances and No classification

mixtures

Pyrophoric liquids No classification Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

gases

Substances and mixtures which in contact with water emit flammable

No classification

No classification Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides

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) 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 Category 2B

Respiratory sensitization classification not possible Skin sensitization classification not possible

Germ cell mutagenicity Category 2 Carcinogenicity Category 1A Reproductive toxicity Category 1A

Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

exposure)

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

Specific target organ toxicity

(repeated exposure)

Category 1 (liver)

Specific target organ toxicity

(repeated exposure)

Category 2 (intestinal tract, central nervous system)

Aspiration hazard

Hazardous to the aquatic

classification not possible classification not possible

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

hazards







GHS02

GHS07

Danger

GHS08

Signal word (GHS JP)

Hazard statements (GHS JP)

Highly flammable liquid and vapor (H225)

Causes eye irritation (H320)

May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336) Suspected of causing genetic defects (H341)

May cause cancer (H350)

May damage fertility or the unborn child (H360)

Causes damage to organs (liver) through prolonged or repeated exposure

(H372)

May cause damage to organs (intestinal tract, central nervous system)

through prolonged or repeated exposure (H373)

Precautionary statements (GHS JP)

Prevention Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Ground and bond container and receiving equipment. (P240) Use explosion-proof electrical/ventilating/lighting equipment. (P241)

Use only non-sparking tools. (P242)

Take action to prevent static discharges. (P243) Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

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

(P280)

Response IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

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: Get medical advice/attention. (P308+P313)

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

If eye irritation persists: Get medical advice/attention. (P337+P313) In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Store in a well-ventilated place. Keep container tightly closed. Storage

(P403+P233)

Store in a well-ventilated place. Keep cool. (P403+P235)

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	CASINI
Phenolphthalein	About 6.2%	C20H14O4	(9)-1152	Existing Chemical Substance	77-09-8
Ethanol	About 93.8%	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

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

dia

Do not use a heavy water stream.

Fire hazard
Explosion hazard

Extremely flammable liquid and vapor.

May induce explosion of containers by heating.

Danger of the steam explosion in indoor, outdoor, sewer.

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 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.

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 : Liquid Appearance : Liquid

Color : colorless transparent
Odor : characteristic odor

pH : 6.1 (reference value, 25°C)

Melting point : No data available
Freezing point : No data available
Boiling point : 78.3 °C (as ethanol)

Flash point : 13 °C (as ethanol, tag closed cup)

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 : 0.81 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.

Possibility of hazardous reactions : Reacts with strong oxidizing agents, strong reducing agents, strong acids

and strong bases.

Conditions to avoid : Sunlight, heat. Ignition sources such as spark, flame and static electricity.

Contact with strong oxidizing agents, strong reducing agents, strong acids

and strong bases.

Incompatible materials : Strong oxidizing agents, Strong reducing agents, Strong acids, Strong

bases

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:classification not possible	
	dust, mist:classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	Category 2B	
Respiratory sensitization Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible Category 2	
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	

Ethanol		
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	

12. Ecological 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			
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 -	classification not possible		
Acute Hazard			
Hazardous to Aquatic Environment -	classification not possible		
Chronic Hazard			
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 -	No classification		
Acute Hazard			
Hazardous to Aquatic Environment -	No classification		
Chronic Hazard			
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) : 1993

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.

Packing group (IMDG) : II
Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3

Hazard labels (IMDG) : 3
Class (IMDG) : 3
Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP28, TP8

Stowage category (IMDG) : B MFAG-No : 127

Air transport(IATA)

UN-No. (IATA) : 1993

Proper Shipping Name (IATA) : Flammable liquid, n.o.s.

Packing group (IATA) : II
Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3
Class (IATA) : 3
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net : 1L

quantity (IATA)

PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provision (IATA) : A3
ERG code (IATA) : 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 : 127

Special transport precautions : 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 : 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)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Ethanol (Ordinance number : 61)

[New added Ordinance number changed substances on April 2024] 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)

3,3-bis(4-hydroxyphenyl)-1,3-dihydroisobenzofuran-1-one (synonym:phenolphthalein) (Ordinance number : 457-4)

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 Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Flammable liquids (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Flammable liquids (Hazardous materials notice Appended Table 1 Civil Aeronautics Law

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)

Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Road Act

Publication of Japan Highway Pablic Corp.)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

Japanese Pollutant Release and Class 2 Designated Chemical Substances (Act Art.2 para. 3, Transfer Register Law (PRTR Law)

Enforcement Oder Art.2 Appended Table No.2)

3,3-Bis(4-hydroxyphenyl)-1,3-dihydroisobenzofuran-1-one;

phenolphthalein (6.2%)

[After amendment of April 2023]

Not applicable

16. Other information

Data sources Handbook of 17322 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.

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