

## Gill's hematoxylin solution

#### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/3/2017 Revision date: 7/14/2023 SDS code: W4-04 Version: 04

### Safety Data Sheet

#### 1. Chemical product and company identification

Product name : Gill's hematoxylin solution

SDS code : W4-04

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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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 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

Pyrophoric liquids

classification not possible classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

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 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) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2B

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

Category 1 (central nervous system, blood system,

exposure) kidneys)

Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

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

exposure)

Specific target organ toxicity

(repeated exposure) Aspiration hazard

classification not possible

classification not possible

classification not possible

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

Hazardous to the aquatic

environment, long-term (chronic)

classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS07

GHS08

Signal word (GHS JP) Danger

Hazard statements (GHS JP) Causes skin and eye irritation (H315+H320)

> May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336)

Causes damage to organs (central nervous system, blood system,

kidneys) (H370)

Precautionary statements (GHS JP)

Prevention 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: Wash with plenty of water. (P302+P352)

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: Call a POISON CENTER or doctor.

(P308+P311)

Call a POISON CENTER or doctor if you feel unwell. (P312) If skin irritation occurs: Get medical advice/attention. (P332+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

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

(P403+P233)

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	CASKI
Hematoxylin	About 0.47%	C16H14O6	(5)-3664	Existing Chemical Substance	517-28-2
Aluminium sulfate	About 4.15%	Al2(SO4)3	(1)-25	Existing Chemical Substance	10043-01-3
Sodium iodate	About 0.05%	NaIO3	(1)-443	Existing Chemical Substance	7681-55-2
Ethylene glycol	About 26.34%	C2H6O2	(2)-230	Existing Chemical Substance	107-21-1
Water	About 68.99%	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

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

Unsuitable extinguishing media

Hazardous decomposition products

in case of fire

Use proper extinguishing media depending on peripheral fire.

Do not use a heavy water stream.

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

nlaces

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 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.

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		
Aluminium sulfate		
Exposure limits (ACGIH)	TWA 1 mg/m3(R),STEL -	
Ethylene glycol		
Exposure limits (ACGIH)	TWA 25 ppm (V),STEL 50 ppm (V) · 10 mg/m3 (I, H)	

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 purple Odor Odorless рΗ 2.5 (25°C) Melting point No data available Freezing point No data available No data available Boiling point No data available Flash point

No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapor pressure Relative density No data available Density 1.07 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. May react with strong reducing agents,

strong acids and strong bases.

Conditions to avoid : Sunlight, heat. 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

Sulfur oxides, Iodine compounds

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

Hematoxylin		
Aspiration hazard	No data available	
Aluminium sulfate		
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory sensitization	No data available	
Skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	
Sodium iodate		
Acute toxicity (oral)	Category 4	
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	No classification	
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	
Ethylene glycol		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	Category 4	
Skin corrosion/irritation	Category 2	
Serious eye damage/irritation	Category 2B	
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	Category 1 Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)	
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	

Water	
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

3	
The information in this section is based of	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
Hematoxylin	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
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
Aluminium sulfate	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
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
Sodium iodate	
Hazardous to Aquatic Environment - Acute Hazard	Category 3
Hazardous to Aquatic Environment - Chronic Hazard	Category 3
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
Ethylene glycol	, · · · · · · · · · · · · · · · · · · ·
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment - Chronic Hazard	No classification
Persistence and degradability	No data available

Ethylene glycol	
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) : 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 : Not applicable Regulatory information by air : Not applicable

**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**

Chemical Substances Control Law Industrial Safety and Health Law

Priority Assessment Chemical Substances (Law Article 2, Para.5)

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) Ethylene glycol (Ordinance number : 75)

Aluminum, soluble salts (Ordinance number: 37)

Japanese Poisonous and

Deleterious Substances Control Law

: Not applicable

Water Pollution Prevention Law

: Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Fire Service Law : Not applicable

Air Pollution Control Law : Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act Waterworks Law : Export Trade Control Ordinance appendix 1-16

Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

#### 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.