

Gram stain solution No.1

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/7/2009 Revision date: 9/26/2023 SDS code: N7-16 Version: 10

Safety Data Sheet

1. Chemical product and company identification

Gram stain solution No.1 **Product name**

SDS code N7-16

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.

Do not use on a human body or for animal medicines, foods, household Restrictions on use

products, cosmetics, etc.

2. Hazards identification

GHS classification

Health hazards

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 Category 3 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 classification not possible Corrosive to metals

Desensitized explosives No classification 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 2

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 2 (nervous system, respiratory system,

exposure)

cardiovascular system, kidneys)

Specific target organ toxicity

(repeated exposure)
Aspiration hazard

Category 2 (liver, central nervous system, cardiovascular system, blood system, kidneys)

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)





Danger



GHS02

GHS07 GHS08

Signal word (GHS JP)
Hazard statements (GHS JP)

Flammable liquid and vapor (H226) Causes skin irritation (H315)

Causes serious eye irritation (H319)

Suspected of causing genetic defects (H341)

May cause cancer (H350)

May damage fertility or the unborn child (H360)

May cause damage to organs (nervous system, respiratory system,

cardiovascular system, kidneys) (H371)

May cause damage to organs (liver, central nervous system,

cardiovascular system, blood system, kidneys) 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)

Keep container tightly closed. (P233)

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)

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

(P280)

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

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

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)

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

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) In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Storage : 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)

Response

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	CAS KN
Crystal violet	About 0.7%	C25H30CIN3	(5)-1971	Existing Chemical Substance	548-62-9
Ethanol	About 8.0%	C2H5OH	(2)-202	Existing Chemical Substance	64-17-5
Phenol	About 1.1%	C6H6O	(3)-481	Existing Chemical Substance	108-95-2
Water	About 90.2%	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

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.

Extremely flammable liquid and vapor.

Fire hazard 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

Firefighting instructions

In case of fire, product may produce irritative or toxic fumes/gases.

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		
Phenol			
Exposure limits (JSOH)	5ppm(19mg/m3)(skin)		
Exposure limits (ACGIH)	TWA 5 ppm,STEL - (Skin)		

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 : dark reddish purple
Odor : characteristic odor
pH : No data available
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 ≈ 1.00 g/cm³ (20 $^{\circ}$ 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 May react with oxidizing agents.

Conditions to avoid Sunlight, heat. Ignition sources such as sparks, flames and static electricity.

Contact with oxidizing agents.

Incompatible materials Oxidizing agents Hazardous decomposition No data available

products

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 2	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	Category 2	
Carcinogenicity	Category 1A	
Reproductive toxicity	Category 1A	
STOT-single exposure	Category 2	
STOT-repeated exposure Aspiration hazard	Category 2 classification not possible	
	Classification not possible	
Crystal violet		
Acute toxicity (oral)	Category 3	
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	Category 2	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	No classification	
Carcinogenicity	Category 1B	
Reproductive toxicity	No classification	
STOT-single exposure	classification not possible	

Crystal violet	
STOT-repeated exposure	Category 2
Aspiration hazard	classification not possible
Ethanol	
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)	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
Phenol	·
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	Category 3
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	Category 2
Carcinogenicity	No classification
Reproductive toxicity	Category 1B
STOT-single exposure	Category 1
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
·	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 Serious eye damage/irritation	No classification No classification
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Respiratory sensitization Skin sensitization	No classification No classification
	No classification No classification
Germ cell mutagenicity Carcinogenicity	No classification No classification
	No classification
Reproductive toxicity STOT-single exposure	No classification 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) Hazardous to the aquatic environment, classification not possible Hong-term (chronic) Persistence and degradability Possible Mobility in soil No data available Bioaccumulative potential No data available No data available No data available No data available Crystal violet Hazardous to Aquatic Environment - classification not possible Crystal violet Hazardous to Aquatic Environment - classification not possible Chronic Hazard Persistence and degradability No data available Bioaccumulative potential No data available Hazardous to Aquatic Environment - classification not possible Chronic Hazard Persistence and degradability No data available Bioaccumulative potential No data available Hazardous to Aquatic Environment - classification not possible Cthanol Hazardous to Aquatic Environment - No classification not possible Ethanol Hazardous to Aquatic Environment - No classification Chronic Hazard Persistence and degradability No data available Bioaccumulative potential No data available Bioaccumulative potential No data available	The information in this section is based on the "GHS Classification Results" by NITE.				
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Mobility in soil No data available	Bioaccumulative potential	No data available			
·	-	No data available			
	-	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) : III
Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3
Class (IMDG) : 3

Special provision (IMDG) : 223, 274, 955

Limited quantities (IMDG) 5 L Excepted quantities (IMDG) E1 LP01, P001 Packing instructions (IMDG) IBC packing instructions (IMDG) IBC03 Tank instructions (IMDG) T4 Tank special provisions (IMDG) TP1, TP29 Stowage category (IMDG) Α MFAG-No 127

Air transport(IATA)

UN-No. (IATA) : 1993

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

Packing group (IATA) : III
Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3
Class (IATA) : 3
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net : 10L

quantity (IATA)

PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provision (IATA) : A3
ERG code (IATA) : 3L

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

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) Ethanol (Ordinance number : 61) Phenol (Ordinance number : 474)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

[New added 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)

Hexamethylpararoseaniline chloride (synonym:crystal violet)

(Ordinance number: 516-5)

Carcinogenic Substances (Ordinance on Industrial Safety and Health,

Art.577-2 Para.3, Public Notification No. 371 of Dec 26, 2022)

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)

Living Environment Pollution Itemes (Act, Art.2, Enforcement Oder, Art.3, Ministerial Ordinance to Provide for Effluent Standards, Art.1,

Appended Table 2)

Fire Service Law : Not applicable

Air Pollution Control Law : Specified substances (Article 17, Paragraph 1 of the Law, Article 10

of the Enforcement Ordinance)

Hazardous Air Pollutants (Central Environment Council Report No. 9) 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)

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)

Waste Management on Public

Cleansing Law

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

Order Art.2-4)

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

Water Quality (Ministry Order No.101 of 2003)

Sewerage Law : Substances for Water Quality Standard (Act Art.12-2 Para.2,

Enforcement Order Art.9-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Class 1 Designated Chemical Substances (Act Art.2 para.2,

Enforcement Order Art.1 Appended Table No.1)

Phenol (1.1%)

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.

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