

Gentian violet diluted solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 3/14/2016 Revision date: 9/26/2023 SDS code: U4-05 Version: 05

Safety Data Sheet

1. Chemical product and company identification

Product name : Gentian violet diluted solution

SDS code : U4-05

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

Gases under pressure

Flammable liquids

Flammable solids

No classification

Category 3

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 classification not possible Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) No classification

Acute toxicity (dermal)

Acute toxicity (inhalation:gas)

Acute toxicity (inhalation:vapors)

No classification

No classification

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

Skin corrosion/irritation No classification
Serious eye damage/eye irritation No classification

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 No classification

exposure)

Specific target organ toxicity

(repeated exposure)

Category 2 (liver)

Aspiration hazard

Hazardous to the aquatic

classification not possible classification not possible

hazards 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)

Environmental





GHS02

GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Flammable liquid and vapor (H226)

May cause cancer (H350)

May damage fertility or the unborn child (H360)

May cause damage to organs (liver) 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)

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

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

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)

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
Methyl violet	About 0.7%	C24H28CIN3	(5)-1969	-	8004-87-3
Ethanol	About 8.0%	C2H5OH	(2)-202	Existing Chemical Substance	64-17-5
Water	About 91.3%	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.

re

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

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

Viscosity, kinematic

Particle characteristics

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

No data available

No data available

9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Color : purple

Odor : characteristic odor

pH : 3.7 (25℃)

Melting point No data available Freezing point No data available **Boiling point** No data available Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density 0.98 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

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : May react with strong oxidizing agents and alkali metals.

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

Contact with strong oxidizing agents and alkali metals.

Incompatible materials : Strong oxidizing agents, Alkali metals Hazardous decomposition : Hydrogen chloride, Nitrogen oxides

products

11. Toxicological information

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

	d on the "GHS Classification Results" by NTE.
As a product	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (inhalation)	vapors:No classification Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	No classification
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 STOT-repeated exposure	No classification
Aspiration hazard	Category 2 classification not possible
	Classification not possible
Methyl violet	Tall 1 and 1
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
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.)

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Ethanol		
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.				
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			
Methyl violet				
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			
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) 1993

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

Packing group (IMDG) Ш 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 Packing instructions (IMDG) LP01, P001 IBC packing instructions (IMDG) IBC03 Tank instructions (IMDG) T4 TP1, TP29 Tank special provisions (IMDG)

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) Ш Transport hazard class(es) (IATA) 3 3 Hazard labels (IATA) Class (IATA) 3 E1 PCA Excepted quantities (IATA) 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) А3 ERG code (IATA) 3L

Not applicable Marine pollutant

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

Harmful Substances Whose Names Are to be Indicated on the Label Industrial Safety and Health Law

(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 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
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)

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.

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