

0.1W/V% Metacresol purple solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 2/19/2008 Revision date: 10/16/2023 SDS code: N2-08 Version: 05

Safety Data Sheet

1. Chemical product and company identification

Product name : 0.1W/V% Metacresol purple solution

SDS code : N2-08

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 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 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)

Acute toxicity (inhalation:gas)

No classification

Acute toxicity (inhalation:vapors)

No classification

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

Skin corrosion/irritation No classification
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 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 (central nervous system)

Aspiration hazard classification not possible Hazardous to the aquatic classification not possible

Environmental 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)







GHS02

GHS07

GHS08

Signal word (GHS JP)

Hazard statements (GHS JP)

Danger

Flammable liquid and vapor (H226)

Causes eye irritation (H320)

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

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 (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.

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

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)

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

(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
Hallic		Formula	CSCL no	ISHL no	CASKI
Metacresol purple	About 0.1%	C21H18O5S	-	-	2303-01-7
Ethanol	About 42.4%	C2H5OH	(2)-202	Existing Chemical Substance	64-17-5
Water	About 57.5%	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

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

May induce explosion of containers by heating.

Hazardous decomposition products

in case of fire

Explosion hazard

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 : reddish orange
Odor : characteristic odor

pH : 2.9 (25°C)

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

Relative density : No data available

Density : 0.93 g/cm³ (25°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 oxidizing agents to pose a risk of fire and explosion.

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

Contact with oxidizing agents.

Incompatible materials : Oxidizing agents

Hazardous decomposition : Nitrogen oxides, Sulfur oxides

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)	No classification	
Acute toxicity (inhalation)	vapors:No classification	
	Gases:No classification	
01:	dust, mist:classification not possible	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	Category 2B	
Respiratory sensitization Skin sensitization	classification not possible 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	
Metacresol purple		
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	

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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	
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,	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	
Metacresol purple		
Hazardous to Aquatic Environment -	No data available	
Acute Hazard		
Hazardous to Aquatic Environment -	No data available	
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	

Ethanol		
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 : Empty the packaging completely prior to disposal.

packaging 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

Packing instructions (IMDG) : LP01, P001

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP29

Stowage category (IMDG) : A

Air transport(IATA)

MFAG-No

UN-No. (IATA) : 1993

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

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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

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 : Nonhazardous material

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)

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

Waste Management on Public

Cleansing Law

Order Art.2-4)

: Not applicable

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

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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