

Pyrogallol alkaline solution

Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Pyrogallol alkaline solution **Product name**

SDS code G9-10

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

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 classification not possible

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

classification not possible

mixtures

Substances and mixtures which in contact with water emit flammable

gases

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible

Corrosive to metals Category 1

Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) Category 3

> Acute toxicity (dermal) classification not possible

No classification Acute toxicity (inhalation:gas) Acute toxicity (inhalation:vapors) No classification

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

Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1

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 Category 1 (respiratory system)

Specific target organ toxicity (single

exposure)

Specific target organ toxicity (single

exposure)

Category 2 (central nervous system)

Specific target organ toxicity

(repeated exposure)

Category 1 (respiratory system)

Aspiration hazard Category 1

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic) classification not possible

classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)







GHS08

GHS05

GHS06

Signal word (GHS JP) Danger

Hazard statements (GHS JP) May be corrosive to metals (H290)

Toxic if swallowed (H301)

May be fatal if swallowed and enters airways (H304) Causes severe skin burns and eye damage (H314) Causes damage to organs (respiratory system) (H370) May cause damage to organs (central nervous system) (H371) Causes damage to organs (respiratory system) through prolonged or

repeated exposure (H372)

Precautionary statements (GHS JP)

Prevention Keep only in original container. (P234)

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 SWALLOWED: Immediately call a POISON CENTER or doctor. Response

(P301+P310)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(P301+P330+P331)

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: Call a POISON CENTER or doctor.

(P308+P311)

Immediately call a POISON CENTER or doctor. (P310) Get medical advice/attention if you feel unwell. (P314) Wash contaminated clothing before reuse. (P363) Absorb spillage to prevent material-damage. (P390)

Store locked up. (P405) Storage

Store in corrosive resistant container with a resistant inner liner. (P406)

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		Formula	Kanpo number		CAS RN
Name	Concentration range		CSCL no	ISHL no	OAO KII
Potassium hydroxide	About 38.8%	КОН	(1)-369	Existing Chemical Substance	1310-58-3
Pyrogallol	About 2.3%	C6H6O3	(3)-554	Existing Chemical Substance	87-66-1
Water	About 58.9%	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.

Explosion hazard

May induce explosion of containers by heating.

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.

Avoid (reject) fire-fighting water to enter environment.

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.

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.

Store in corrosive resistant container with a resistant inner liner.

Material used in : Airtight container.

packaging/containers Storage prohibition in glass or porcelain container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Component name	Administration level (MHLW)	Exposure limits (JSOH)		
Component name	Administration level (MillEVV)	Standard Value	JSOH OEL C	
Potassium hydroxide	-	-	2 mg/m³	

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

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 brown Odor Odorless рΗ ≥ 12 (25°C) No data available Melting point 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 No data available Flammability Vapor pressure No data available

Relative density No data available Density 1.40 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. Absorbs carbon dioxide in air.

Possibility of hazardous reactions It is a strongly base and violently reacts with acids to generate heat. Erodes

metals such as zinc, aluminium, tin and lead to evolve flammable/explosive gas (hydrogen). Reacts with ammonium salts to produce ammonia, causing

fire hazard. Erodes some plastics, rubbers and coating agents.

Conditions to avoid Sunlight, heat. Contact with strong acids, strong oxidizing agents,

ammonium salts and metals.

Strong acids, Strong oxidizing agents, Ammonium salts, Metals Incompatible materials

Hazardous decomposition

products

Potassium oxides, Hydrogen

11. Toxicological information

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

Acute toxicity (dermal) Acute toxicity (inhalation) Acute toxicity (inhalation) Acute toxicity (inhalation) Acute toxicity (inhalation) Serious eye damage/irritation Acategory 1 Serious eye damage/irritation Category 1 Respiratory sensitization Category 1 Category 3 Acute toxicity (oral) Category 3 Acute toxicity (dermal) Category 1 Category 3 Acute toxicity (agas) Acute toxicity (agas) Acute toxicity (apour) Acute toxicity (inhalation:dust/mist) Category 1 Category 1 Serious eye damage/irritation Category 1 Respiratory sensitization Category 1 Respiratory sensitization Category 1 Respiratory sensitization Category 1 Category 1 Respiratory sensitization Category 1 Category 1	As a product	
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STOT-repeated exposure Category 1 Aspiration hazard Category 1 Pyrogallol	Reproductive toxicity	classification not possible
Aspiration hazard Category 1 Pyrogallol	STOT-single exposure	Category 1
Pyrogallol	STOT-repeated exposure	Category 1
	Aspiration hazard	Category 1
Acute toxicity (oral) Category 4	Pyrogallol	
	Acute toxicity (oral)	Category 4

Pyrogallol	
Acute toxicity (oral)	Category 4

Pyrogallol	
Acute toxicity (dermal)	No classification
Acute toxicity (definal) Acute toxicity (gas)	No classification
Acute toxicity (gas) Acute toxicity (vapour)	No classification
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
	Category 2
Serious eye damage/irritation Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
	classification not possible
Germ cell mutagenicity	'
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1 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
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	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	
Potassium hydroxide		
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	classification not possible	
Pyrogallol		
Hazardous to Aquatic Environment -	classification not possible	
Acute Hazard		

Pyrogallol	
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible
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) : 1760

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

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 8 Hazard labels (IMDG) 8 Class (IMDG) 8 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) T11 Tank special provisions (IMDG) TP2, TP27

Stowage category (IMDG) : B

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

MFAG-No : 154

Air transport(IATA)

UN-No. (IATA) : 1760

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

Packing group (IATA) : II
Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8
Class (IATA) : 8
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net : 0.5L

quantity (IATA)

PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provision (IATA) : A3, A803
ERG code (IATA) : 8L

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 154

When transporting, load containers so that they do not tip over, Special transport precautions damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law

Mutagenic Existing Chemicals (Act, Art.57-5, Official Notice by

Director of Labor Standards Bureau)

Harmful Substances Whose Names Are to be Indicated on the Label

(Law Art.57, Para.1, Enforcement Order Art.18)

Dangerous or Harmful Substances for Notification of Chemical Name

etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2)

Potassium hydroxide

Corrosive Liquids (Ordinance on Industrial Safety and Health Law Art.

Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1,

4 based on July 4, 2023)

[Date of enforcement: April 1, 2025]

Dangerous or Harmful Substances for Labeling of Chemical Name

etc. (Act Art.57 Para.1, Enforcement Order, Art.18)

Dangerous or Harmful Substances for Notification of Chemical Name

etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2)

1,2,3-Trihydroxybenzene (alias: Pyrogallol)

Japanese Poisonous and

Water Pollution Prevention Law

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2)

Preparations containing potassium hydroxide (except for preparations

Designated Chemical Substances (Law Article 2, Paragraph 4,

which contain 5% or less potassium hydroxide)

Enforcement Order Article 3-3)

Fire Service Law Foreign Exchange and Foreign

Trade Control Act

Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Corrosive substances (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Corrosive substances (Hazardous materials notice Appended Table 1 Civil Aeronautics Law

Article 194 of the Enforcement Regulations)

Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule, Port Regulation Law

notice attached table that defines the type of dangerous goods)

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

Not applicable

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 Transfer Register Law (PRTR Law)

Labor Standards Act

Not applicable

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

Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd. Data sources

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.