

o-Chlorophenol

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 1/25/2010 Revision date: 4/1/2024 SDS code: A6-15 Version: 09

Safety Data Sheet

1. Chemical product and company identification

Product name o-Chlorophenol

SDS code A6-15

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

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 No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids Category 4 Flammable solids No classification No classification

Self-reactive substances and

mixtures

Pyrophoric liquids No classification Pyrophoric solids No classification

Self-heating substances and

mixtures

classification not possible

Substances and mixtures which in contact with water emit flammable

gases

No classification

Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides No classification

Corrosive to metals classification not possible Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) Category 4

> Acute toxicity (dermal) Category 4 Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) Category 2

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 No classification

Carcinogenicity classification not possible

Reproductive toxicity Category 1B

Specific target organ toxicity (single Category 1 (respiratory system, central nervous

exposure) system)

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Category 2

classification not possible

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Specific target organ toxicity

(repeated exposure)

Aspiration hazard classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

Category 2

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Response





GHS06



GHS08



GHS09

GHS05 Signal word (GHS JP) Danger

Hazard statements (GHS JP) Combustible liquid (H227)

> Harmful if swallowed or in contact with skin (H302+H312) Causes severe skin burns and eye damage (H314)

Fatal if inhaled (H330)

May damage fertility or the unborn child (H360)

Causes damage to organs (respiratory system, central nervous system)

(H370)

Toxic to aquatic life with long lasting effects (H411)

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)

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)

Avoid release to the environment. (P273)

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

(P280)

[In case of inadequate ventilation] wear respiratory protection. (P284) IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

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) Call a POISON CENTER or doctor if you feel unwell. (P312)

Take off contaminated clothing and wash it before reuse. (P362+P364) In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Collect spillage. (P391)

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

(P403+P233)

Store locked up. (P405)

Dispose of contents/container to hazardous or special waste collection Disposal

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture Substance Synonyms 2-Chlorophenol

Name	Concentration or Concentration range	Formula	Kanpo number		040 511
			CSCL no	ISHL no	CAS RN
o-Chlorophenol	≧98.5%, ≦100%	C6H5CIO	(3)-895	Existing Chemical Substance	95-57-8

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

Explosion hazard Hazardous decomposition products

Firefighting instructions

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Do not use a heavy water stream.

May induce explosion of containers by heating.

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

> 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

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.

Material used in : Light shielding airtight container.

packaging/containers
Technical measures

: Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

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 : colorless ~ slight yellow
Odor : Irritating and characteristic odor

pH : No data available

Melting point : ≥ 8.0 °C

Freezing point : No data available Boiling point : 175 – 176 °C

Flash point : 70 °C (tag closed cup)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability : No data available

Vapor pressure : 230 Pa (20°C)

Relative density : No data available

Density : 1.27 − 1.28 g/cm³ (20°C)

Relative gas density : No data available

Solubility : Soluble in ethanol. Soluble in diethyl ether.

Water: 2.8 % (20°C)

Partition coefficient n-

octanol/water (Log Pow)

: 2.15

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. It is colored yellow by influence of

light and air.

Possibility of hazardous reactions : When burned, it decomposes to produce toxic and corrosive fumes

(hydrochloric acid, chlorine). Reacts with oxidizing agents.

Conditions to avoid : Sunlight, heat. Ignition sources such as spark, flame and static electricity.

Contact with oxidizing agents.

Incompatible materials : Oxidizing agents

Hazardous decomposition : Chlorine, Hydrogen chloride, Phosgene

products

11. Toxicological information

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

o-Chlorophenol		
Acute toxicity (oral)	Category 4	
Acute toxicity (dermal)	Category 4	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	Category 2	
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	classification not possible	
Germ cell mutagenicity	No classification	
Carcinogenicity	classification not possible	
Reproductive toxicity	Category 1B	
STOT-single exposure	Category 1	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	

12. Ecological information

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

o-Chlorophenol		
Hazardous to Aquatic Environment - Acute Hazard	Category 2	
Hazardous to Aquatic Environment - Chronic Hazard	Category 2	
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	

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) : 2021

Proper Shipping Name (IMDG) : CHLOROPHENOLS, LIQUID

Packing group (IMDG) : III
Transport hazard class(es) (IMDG) : 6.1
Hazard labels (IMDG) : 6.1
Class (IMDG) : 6.1
Division (IMDG) : 6.1

Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
Stowage category (IMDG) : A

Properties and observations (IMDG) : A wide range of toxic liquids. Toxic if swallowed, by skin contact or by

inhalation.

MFAG-No : 153

Air transport(IATA)

UN-No. (IATA) : 2021

Proper Shipping Name (IATA) : Chlorophenols, liquid

Packing group (IATA) : III
Transport hazard class(es) (IATA) : 6.1
Hazard labels (IATA) : 6.1
Class (IATA) : 6.1
Division (IATA) : 6.1
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y642
PCA limited quantity max net : 2L

quantity (IATA)

PCA packing instructions (IATA) : 655
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 663
CAO max net quantity (IATA) : 220L
ERG code (IATA) : 6L

Marine pollutant : 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 : 153

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)

Dangerous or Harmful Substances for Notification of Chemical Name

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

Chlorophenol

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)

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 : Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble

liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Ship Safety Act : Toxic and infectious substances/Toxic substances (Dangerous Goods

Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances (Hazardous

materials notice Appended Table 1 Article 194 of the Enforcement

Regulations)

Port Regulation Law : Toxic and infectious substances/Toxic substances (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)

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.