

2,4,6-Trichlorophenol-13C₆

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 7/8/2022 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name 2,4,6-Trichlorophenol-13C6

SDS code J8-09

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.

Restrictions on use Do not use for any purpose other than research and experiment. Do not use on a

human body or for animal medicines, foods, household products, cosmetics, etc.

Do not use in the environment.

2. Hazards identification

GHS classification

Physical hazards No classification **Explosives**

> No classification Flammable gases Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification

Flammable solids classification not possible

Self-reactive substances and

mixtures

Pyrophoric liquids

No classification No classification

Pyrophoric solids classification not possible classification not possible

Self-heating substances and

mixtures

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 No classification

Health hazards Acute toxicity (oral) Category 4

> 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

classification not possible Respiratory sensitization Skin sensitization classification not possible

Germ cell mutagenicity No classification Carcinogenicity Category 2 Reproductive toxicity Category 2

Specific target organ toxicity (single Category 1 (central nervous system)

exposure)

Specific target organ toxicity (single

exposure)

Category 3 (Respiratory tract irritation.)

exposure)

Specific target organ toxicity

(repeated exposure)

Category 1 (respiratory system)

Aspiration hazard classification not possible

Environmental hazards

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

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

No classification

Category 1

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





Danger



GHS07

GHS08

GHS09

Signal word (GHS JP)

Hazard statements (GHS JP)

Harmful if swallowed (H302)

Causes skin irritation (H315)
Causes serious eye irritation (H319)
May cause respiratory irritation (H335)
Suspected of causing cancer (H351)

Suspected of damaging fertility or the unborn child (H361) Causes damage to organs (central nervous system) (H370)

Causes damage to organs (respiratory system) through prolonged or

repeated exposure (H372) Very toxic to aquatic life (H400)

Precautionary statements (GHS JP)

Prevention

Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

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)

Response

: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

IF ON SKIN: Wash with plenty of water. (P302+P352)

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)

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

Rinse mouth. (P330)

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)

Collect spillage. (P391)

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

(P403+P233)

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 : Substance

Name	Concentration or	Formula	Kanpo number		CAS RN
Hallic	Concentration range		CSCL no	ISHL no	CASINI
2,4,6-Trichlorophenol-13C6	≧95%、≦100%	*C6H3Cl3O	(3)-931	Existing Chemical Substance	208461-28-3

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 : Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Water spray, Foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

Firefighting instructions

Hazardous decomposition products

in case of fire

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

in case of me, product may produce intative of texteramos/gases.

fire at a stroke using appropriate fire-extinguishers.

May induce explosion of containers by heating.

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.

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 : Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

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 : Refrigerate: 2-10°C

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 : Dustproof mask
Hand protection : Protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state : Solid
Appearance : Solid

Color No data available Odor No data available рΗ No data available 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 Decomposition temperature No data available No data available Flammability (solid, gas) Vapor pressure No data available Relative density No data available Density No data available No data available Relative gas density 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 : No data available Conditions to avoid : Sunlight, Heat Incompatible materials : No data available

Hazardous decomposition : Chlorine and its compounds

products

11. Toxicological information

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

2,4,6-Trichlorophenol			
Acute toxicity (oral)	Category 4		
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	Category 2		
Serious eye damage/irritation	Category 2		
Respiratory sensitization	classification not possible		
Skin sensitization	classification not possible		
Germ cell mutagenicity	No classification		
Carcinogenicity	Category 2		
Reproductive toxicity	Category 2		
STOT-single exposure	Category 1 Category 3 (Respiratory tract irritation.)		
STOT-repeated exposure	Category 1		
Aspiration hazard	classification not possible		

12. Ecological information

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

2,4,6-Trichlorophenol		
Hazardous to Aquatic Environment - Acute Hazard	Category 1	
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) : 3077

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Packing group (IMDG) : III
Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9

Class (IMDG) : 9

Special provision (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A
MFAG-No : 171

Air transport(IATA)

UN-No. (IATA) : 3077

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

Packing group (IATA) : III
Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9
Class (IATA) : 9
PCA Excepted quantities (IATA) : E1

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net : 30kgG
quantity (IATA)

PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provision (IATA) : A97, A158, A179, A197, A215

ERG code (IATA) : 9L

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 : 17

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 : Not applicable Japanese Poisonous and : Not applicable

Deleterious Substances Control Law

Transfer Register Law (PRTR Law)

Water Pollution Prevention Law : Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Fire Service Law : Not applicable

Air Pollution Control Law : Hazardous Air Pollutants (Central Environment Council Report No. 9)

Foreign Exchange and Foreign : Export Trade Control Ordinance appendix 1-16

Trade Control Act

Ship Safety Act : Miscellaneous dangerous substances & articles (Dangerous Goods

Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law : Miscellaneous dangerous substances & articles (Hazardous materials

notice Appended Table 1 Article 194 of the Enforcement Regulations)

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

Enforcement Oder Art.1 Appended Table No.1)

2,4,6-Trichlorophenol (100%)

[After amendment of April 2023]

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

Enforcement Order, Art.1 Appended Table 1)

2,4,6-Trichlorophenol (100%)

16. Other information

Data sources

 Handbook of 17322 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 Havashi 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.