

OFF-FLAVOR KIT (2,4,6-Trichloroanisole)

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 5/6/2021 Revision date: 5/15/2023 SDS code: R2-10 Version: 02

Safety Data Sheet

1. Chemical product and company identification

OFF-FLAVOR KIT (2,4,6-Trichloroanisole) **Product name**

SDS code R2-10

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 for purposes other than odor confirmation test. Restrictions on use

2. Hazards identification

GHS classification

Physical hazards No classification **Explosives**

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification No classification Gases under pressure Flammable liquids No classification Flammable solids No classification Self-reactive substances and No classification

mixtures

No classification Pyrophoric liquids Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

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) No classification

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

Acute toxicity (inhalation:vapors) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation No classification

Respiratory sensitization classification not possible

Skin sensitization No classification

Germ cell mutagenicity classification not possible Carcinogenicity classification not possible

Reproductive toxicity Category 1B

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

No classification

exposure)

Specific target organ toxicity (single Category 2 (visual organ, systemic toxicity)

exposure)

Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

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

(repeated exposure) system)

Specific target organ toxicity

(repeated exposure)

Category 2 (visual organ)

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

environment, short-term (acute)

Hazardous to the aquatic

classification not possible environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Environmental

hazards





GHS08

Signal word (GHS JP) Danger

Hazard statements (GHS JP) May cause drowsiness or dizziness (H336)

May damage fertility or the unborn child (H360)

Causes damage to organs (blood system, central nervous system) (H370) May cause damage to organs (visual organ, systemic toxicity) (H371) Causes damage to organs (respiratory system, central nervous system)

through prolonged or repeated exposure (H372)

May cause damage to organs (visual organ) 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.

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.

(P280)

IF INHALED: Remove person to fresh air and keep comfortable for Response

breathing (P304+P340)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

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

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

(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 Mixture

Name	Concentration or Concentration range Formula	Kanpo number		CAS RN	
Hame		Torritala	CSCL no	ISHL no	OAO KK
Propylene glycol	≧98%	C3H8O2	(2)-234	2-(8)-321,2- (8)-323	57-55-6
Methanol	About 1%	СНЗОН	(2)-201	Existing Chemical Substance	67-56-1
2,4,6-Trichloroanisole	≦0.5%	C7H5Cl3O	-	-	87-40-1

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 : Use proper extinguishing media depending on peripheral fire, Water

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

Unsuitable extinguishing media

Hazardous decomposition products

Firefighting instructions

in case of fire

Do not use a heavy water stream.

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

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.

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.

Light shielding airtight container. Material used in

packaging/containers Technical measures

Comply with applicable regulations.

Storage temperature Refrigerate: 2-10°C

8. Exposure controls / Personal protection equipment

Exposure limit values		
Methanol		
Japan administration level	200ppm	
Exposure limits (JSOH)	200ppm(260mg/m3)(skin)	
Exposure limits (ACGIH)	TWA 200 ppm,STEL 250 ppm (Skin)	

: Cover up tightly the generation source at the handling place or install local Appropriate engineering controls

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) : Impervious aprons, Impervious work clothing, Impervious long boots Skin and body protection

9. Physical and chemical properties

Physical state Liquid **Appearance** Liquid

Color No data available Odor characteristic odor рΗ No data available Melting point No data available Freezing point No data available

Boiling point 188.2 °C (as Propylene glycol)

Flash point 107 °C (as Propylene glycol, Cleveland open cup)

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

1.04 g/cm³ (as Propylene glycol) Density

Relative gas density No data available No data available Solubility 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. Hygroscopicity.

Possibility of hazardous reactions : Heating decomposes and generates formaldehyde. Reacts violently with

oxidizing agents and poses a risk of fire and explosion. Mixing with hydrogen peroxide may cause explosion by impact. Aluminium and lead

may be eroded.

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

electricity. Contact with oxidizing agents, acids, reducing agents and metals.

Incompatible materials : Oxidizing agents, Acids, Reducing agents, Metals

Hazardous decomposition : Formaldehyde

products

11. Toxicological information

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

	d of the Orio oldosilication results by Terre.
As a product	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (inhalation)	vapors:classification not possible
	Gases:No classification dust, mist:classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	No classification
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	Category 1B
STOT-single exposure	Category 1 Category 2 Category 3 (Narcosis)
STOT-repeated exposure	Category 1 Category 2
Aspiration hazard	classification not possible
Propylene glycol	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	No classification
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1 Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Methanol	
Acute toxicity (oral)	Category 4
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	classification not possible
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	No classification
Carcinogenicity	classification not possible

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Methanol	
Reproductive toxicity	Category 1B
STOT-single exposure	Category 1 Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
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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

12. Ecological information

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

The information in this section is based of	of the Grid Glassification Results by Wite.	
As a product	-laif-ation and associate	
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	
Propylene glycol		
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	
Methanol		
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	
Bioaccumulative potential Mobility in soil	No data available No data available	
Mobility in soil	No data available	
Mobility in soil Hazardous to the ozone layer	No data available	
Mobility in soil Hazardous to the ozone layer 2,4,6-Trichloroanisole Hazardous to Aquatic Environment -	No data available classification not possible	
Mobility in soil Hazardous to the ozone layer 2,4,6-Trichloroanisole Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment -	No data available classification not possible No data available	

2,4,6-Trichloroanisole		
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 : 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) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Packing group (IMDG) : Not applicable
Transport hazard class(es) (IMDG) : Not applicable

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) (IATA) : Not applicable

Marine pollutant : Not applicable

Regulations in Japan

Regulatory information by sea : Not applicable Regulatory information by air : Not applicable

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

Chemical Substances Control Law : Priority Assessment Chemical Substances (Law Article 2, Para.5)

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)
Methanol (Ordinance number: 560)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Fire Service Law : Group 4 - Flammable liquids - 3rd Class petroleums - soluble (Law

Art.2 Para.7, Attached Table 1, Group 4)

Air Pollution Control Law : Specified substances (Article 17, Paragraph 1 of the Law, Article 10

of the Enforcement Ordinance)

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

Labor Standards Act : 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

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 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.