



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 12-Sep-2024

Revision Number 5.08

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	2,4,6-Tribromophenol
Product Code	201-04372,205-04375

Supplier FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

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Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - OralCategory 4Serious eye damage/eye irritationCategory 2ASkin sensitizationCategory 1Reproductive ToxicityCategory 2Specific target organ toxicity (single exposure)Category 2

Category 2 nervous system

Specific target organ toxicity (repeated exposure) Category 2

Category 2 liver, kidneys

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms



Hazard statements

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H361 - Suspected of damaging fertility or the unborn child

H317 - May cause an allergic skin reaction

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H371 - May cause damage to the following organs: nervous system

H373 - May cause damage to the following organs through prolonged or repeated exposure: liver, kidneys

Precautionary statements-(Prevention)

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required

- · Contaminated work clothing should not be allowed out of the workplace
- · Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- · Avoid release to the environment

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth
- · Collect spillage

Precautionary statements-(Storage)

· Store locked up

Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula Br3C6H2OH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
2,4,6-Tribromophenol	98.0	330.80	(3)-959	4-(10)-758	118-79-6

Note on ISHL No.:

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

^{*} in the table means announced chemical substances.

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Safe packaging material Glass

Strong oxidizing agents Incompatible substances

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

This product, as supplied, does not contain any hazardous materials with occupational **Exposure limits**

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151) Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to

them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color White - nearly white

Appearance crystals - crystalline powder

Odor no data available Melting point/freezing point 92 - 95 °C

Boiling point, initial boiling point and boiling range 290 °C

Flammability no data available
Evaporation rate: no data available
Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
rlash point
no data available
pecomposition temperature:
no data available
ph
no data available
viscosity (coefficient of viscosity)

Dynamic viscositySolubilities
no data available
Ethanol: Very soluble, water: practically insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) 4.13

Vapour pressure no data available

Specific Gravity / Relative density 2.55

Vapour densityno data availableParticle characteristicsno data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available **Chemical stability** May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Halides

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4,6-Tribromophenol	1092 mg/kg (Rat)	> 2000 mg/kg (Rat)	>200 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information

Aspiration Hazard source information

Based on the NITE GHS classification results.

0.40.7.1	December 11 - NITE OLIO	December the NITE OLIO	December the NITE OLIO
2,4,6-Tribromophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
	ciassification results.	ciassification results.	classification results.
Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
Chemical Name	vapor- source information	source information	source information
2,4,6-Tribromophenol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
, ,	classification results.	classification results.	classification results.
Skin irritation/corrosion			
	cal Name	Skin corrosion/irritat	ion source information
2,4,6-Trib	romophenol	Based on the NITE GHS classit	ication results.
Serious eye damage/ irritation	•		
	cal Name	Serious eye damage/irr	itation source information
2,4,6-Trib	romophenol	Based on the NITE GHS classit	ication results.
Respiratory or skin sensitizatio	n		
	Chemical Name Respiratory or Skin sensitization source inf		itization source information
2,4,6-Trib	romophenol	Based on the NITE GHS classit	ication results.
Reproductive cell mutagenicity		·	
	cal Name	germ cell mutagencity source information	
2,4,6-Tribi	romophenol	Based on the NITE GHS classification results.	
Carcinogenicity	•	·	
Chemic	cal Name	Carcinogenicity	source information
2,4,6-Trib	romophenol	Based on the NITE GHS classification results.	
5			
Reproductive toxicity	cal Name	Penroductive toxic	ity source information
2,4,6-Tribromophenol		Reproductive toxicity source information Based on the NITE GHS classification results.	
STOT-single exposure	=, 1,0 1110101101		
	cal Name	STOT -single exposi	ire- source information
	romophenol	STOT -single exposure- source information Based on the NITE GHS classification results.	
STOT-repeated exposure	тотпортистог	passa on the rare of to diassi	iodioi iodilo.
	cal Name	STOT -repeated expos	sure- source information
	romophenol	Based on the NITE GHS classif	
Aspiration hazard	топпортити		
Aspiration nazaru			

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Chemical Name

2,4,6-Tribromophenol

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2,4,6-Tribromophenol	EC50:Pseudokirchneriella	LC50:Cyprinus carpio	EC50 : Daphnia magna
•	subcapitata	1.0 - 96 mg/L 96 h	0.22mg/L 48 h
	0.4 - 72 mg/L 72 h	LC50:Pimephales promelas	· ·
	_	4.7 - 9.8 mg/L 96 h	

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
2,4,6-Tribromophenol	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability
Bioaccumulative potential
Mobility in soil

No information available
No information available
No information available

Hazard to the ozone layer No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID

UN3077 **UN** number

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (2,4,6-Tribromophenol)

UN classfication

Subsidiary hazard class

Packing group Ш Marine pollutant Yes

IMDG

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (2,4,6-Tribromophenol)

UN classfication

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN3077 **UN** number

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (2,4,6-Tribromophenol)

UN classfication

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable **Poisonous and Deleterious** Not applicable **Substances Control Law**

Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

[2025.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Industrial Safety and Health Act (

2025~) 【2025.4.1~】Notifiable Substances (Law Art.57-2)

Regulations for the carriage

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

and storage of dangerous

Transport by Ship and Storage, Attached Table 1)

goods in ship **Civil Aeronautics Law**

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification

for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Class 2

Register Law (2023.4.1-)

Class 2 - No.

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Export Trade Control Order Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
2,4,6-Tribromophenol 118-79-6 (98.0)	-	-	Applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances
Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet