



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 29-Jan-2023 Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1-Benzothiophene
Product Code	027-07491,023-07493

Manufacturer FUJIFILM Wako Pure Chemical Corporation

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Fax: +81-6-6203-5964 FUJIFILM Wako Pure Chemical Corporation

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

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

Emergency telephone number Recommended uses and

restrictions on use

+81-6-6203-3741 / +81-3-3270-8571

For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture **Acute toxicity - Oral**

Acute aquatic toxicity Chronic aquatic toxicity Category 4 Category 2 Category 2

Pictograms

Supplier





Signal word

Warning

Hazard statements

H302 - Harmful if swallowed H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention)

- · 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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth
- · Collect spillage

Precautionary statements-(Storage)

Not applicable

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 C8H6S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
1-Benzothiophene	95.0	134.20	N/A	8-(6)-43,8-(6)-67	95-15-8

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

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

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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 Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

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.

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

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Protective mask **Hand protection** Protection gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color White - slight brown or pale blue , upon melting Colorless -

yellowish brown or pale blue

Turbidity (upon melting) clear ~ slightly muddy

Appearance mass or liquid characteristic odor

Melting point/freezing point 28 - 33 °C

Boiling point, initial boiling point and boiling range 221 °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

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities Ethanol , acetone : freely soluble . water : practically

insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) no data available vapour pressure no data available

Specific Gravity / Relative density 1.149

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), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available

Other data no data available

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
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

UN3082 **UN** number

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (1-Benzothiophene)

UN classfication Subsidiary hazard class

Ш Packing group Marine pollutant Yes

IMDG

UN3082 **UN** number

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (1-Benzothiophene)

UN classfication

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN3082 **UN number**

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (1-Benzothiophene)

UN classfication

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed **TSCA** Listed

Japanese regulations

Fire Service Act Not applicable Not applicable **Poisonous and Deleterious**

Substances Control Law

Industrial Safety and Health Act Not applicable

Regulations for the carriage Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding and storage of dangerous

goods in ship

Civil Aeronautics Law

Transport by Ship and Storage, Attached Table 1)

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law $(\sim 2023.3.31)$

Pollutant Release and Transfer

Not applicable

Register Law (2023/4/1~)

Export Trade Control Order Not applicable

Section 16: OTHER INFORMATION

Key literature references and NITE: National Institute of Technology and Evaluation (JAPAN)

sources for data etc. http://www.safe.nite.go.jp/japan/db.html

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

Disclaimer

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet