



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 01-Feb-2023

Revision Number 6.03

Category 4

Category 2

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Dibenzothiophene		
Product Code	045-00912,047-00911		
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome		
	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964		
Supplier	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	+81-6-6203-3741 / +81-3-3270-8571 For research use only		

## **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

restrictions on use

Classification of the substance or mixture

Acute toxicity - Oral
Specific target organ toxicity (single exposure)
Category 2 central nervous system, liver

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

**Pictograms** 



#### **Hazard statements**

H302 - Harmful if swallowed

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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

### **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Avoid release to the environment

### Precautionary statements-(Response)

- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician
- 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 C12H8S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dibenzothiophene	98.0	184.26	(5)-3352	公表	132-65-0

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

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. Glass

Safe packaging material

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
Hand protection
Dust mask
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** 

ColorWhite - pale greenish brown or brownAppearancecrystals - crystalline powder or mass

Odorno data availableMelting point/freezing point97 - 101 °CBoiling point, initial boiling point and boiling range333 °C

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

Upper/lower flammability or

\_\_\_\_\_\_

explosive limits

no data available Upper: no data available Lower:

170 °C Flash point

no data available **Auto-ignition temperature: Decomposition temperature:** no data available pН no data available Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available

Solubilities acetone: free soluble. Ethanol: sparingly soluble. water:

practically insoluble, or insoluble.

no data available n-Octanol/water partition coefficient:(log Pow) Vapour pressure no data available no data available Specific Gravity / Relative density Vapour density no data available **Particle characteristics** no 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** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dibenzothiophene	470 mg/kg(Mouse)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Dibenzothiophene	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
·	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Dibonzonnopnone			Based on the NITE GHS classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Dibenzothiophene	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Dibenzothiophene	Based on the NITE GHS classification results.
Respiratory or skin sensitization	

**Chemical Name** 

Dibenzothiophene	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Olassi Sal Nassa	manus cell mente manaitre accuse information	

Respiratory or Skin sensitization source information

Chemical Name	germ cell mutagencity source information
Dibenzothiophene	Based on the NITE GHS classification results.

Carcinogenicity

- ar on ogomoty		
Chemical Name	Carcinogenicity source information	
Dibenzothiophene	Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Dibenzothiophene		Group 3		
132-65-0		·		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Dibenzothiophene	Based on the NITE GHS classification results.	

STOT-single exposure

Chemical Name STOT -single exposure- source informa	
Dibenzothiophene	Based on the NITE GHS classification results.

**STOT-repeated exposure** 

Chemical Name	STOT -repeated exposure- source information
Dibenzothiophene	Based on the NITE GHS classification results.

**Aspiration hazard** 

Aophation nazara	
Chemical Name	Aspiration Hazard source information
Dibenzothiophene	Based on the NITE GHS classification results.

## **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dibenzothiophene	N/A	N/A	EC50 : Daphnia magna
			0.44 mg/L 48 h

Other data

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

Persistence and degradability Bioaccumulative potential Mobility in soil

Hazard to the ozone layer

No information available 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

UN number UN3077

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s. (Dibenzothiophene)

UN classfication

Subsidiary hazard class
Packing group III
Marine pollutant Yes

**IMDG** 

UN number UN3077

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s. (Dibenzothiophene)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN number UN3077

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s. (Dibenzothiophene)

UN classfication

Subsidiary hazard class

Packing group III Environmentally Hazardous Yes

**Substance** 

## **Section 15: REGULATORY INFORMATION**

**International Inventories** 

EINECS/ELINCS Listed
TSCA Listed

Japanese regulations

Fire Service Act Not applicable Poisonous and Deleterious Not applicable

**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

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 Not applicable

Register Law (~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 sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

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**