



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 28-Feb-2024

Revision Number 2.04

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Barban Standard
Product Code	026-17231

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

**Recommended uses** For research use only

**Restrictions on use**Seek 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 4Skin sensitizationCategory 1Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1

### **Pictograms**





Signal word

Warning

# Hazard statements

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very 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 breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Avoid release to the environment

### Precautionary statements-(Response)

- 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)

· 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 C11H9Cl2NO2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
4-Chlorobut-2-yn-1-yl	98.0	258.10	N/A	N/A	101-27-9
(3-chlorophenyl)carbam					
ate					

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

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,

<sup>\*</sup> in the table means announced chemical substances.

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

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

Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place.

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 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
Appearance
Odor
White - slightly yellowish brown
crystalline powder - powder or mass
no data available

Melting point/freezing point 72-78 °C Boiling point, initial boiling point and boiling range no data available

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

Solubilities Ethanol , acetone : soluble . water : practically insoluble,or

insoluble .

n-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour 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), Nitrogen oxides (NOx), Halides

### Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
4-Chlorobut-2-yn-1-yl	527 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	27400 mg/m³ (Rat) 4 h
(3-chlorophenyl)carbamate			

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
			Based on the NITE GHS
(3-chlorophenyl)carbamate	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
4-Chlorobut-2-yn-1-yl	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
(3-chlorophenyl)carbamate	classification results.	classification results.	classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.
Serious eve damage/ irritation	

Chemical Name	Serious eye damage/irritation source information
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information	
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity	·	
Chemical Name	germ cell mutagencity source information	
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.	

Reproductive toxicity

Reproductive toxicity		
Chemical Name	Reproductive toxicity source information	
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.	
STOT-repeated exposure		
Chemical Name	STOT -repeated exposure- source information	
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.	
Aspiration hazard		
Chemical Name	Aspiration Hazard source information	
4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification results.	
	·	

### **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
4-Chlorobut-2-yn-1-yl	N/A	LC50 : Oncorhychus mykiss	N/A
(3-chlorophenyl)carbamate		0.6 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	
Ī	4-Chlorobut-2-yn-1-yl (3-chlorophenyl)carbamate	Based on the NITE GHS classification	Based on the NITE GHS classification	
		results.	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. (4-Chlorobut-2-yn-1-yl

(3-chlorophenyl)carbamate)

UN classfication

Subsidiary hazard class

Ш Packing group Marine pollutant Yes

**IMDG** 

**UN** number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (4-Chlorobut-2-yn-1-yl

(3-chlorophenyl)carbamate)

**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

ΙΔΤΔ

UN3077 **UN** number

Environmentally hazardous substance, solid, n.o.s. (4-Chlorobut-2-yn-1-yl Proper shipping name:

(3-chlorophenyl)carbamate)

**UN classfication** 

Subsidiary hazard class

Ш **Packing group 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~ Lagrange Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Regulations for the carriage

and storage of dangerous

goods in ship

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

**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

(2023.4.1-)

**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.

**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**