



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 09-Feb-2023

Revision Number 8.02

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

| Product Name                         | Ibudilast  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|
| Product Code                         | 096-06101,092-06103  |  |  |  |  |
| 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  Emergency telephone number | 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 +81-6-6203-3741 / +81-3-3270-8571 |  |  |  |  |
| Recommended uses and                 | For research use only  |  |  |  |  |

## **Section 2: HAZARDS IDENTIFICATION**

GHS classification
Classification of the substance or mixture
Acute toxicity - Oral
Skin corrosion/irritation
Serious eye damage/eye irritation

Category 4 Category 2 Category 2A

**Pictograms** 



restrictions on use

Signal word Warning

### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary statements-(Response)**

- 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 occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

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· Rinse mouth

#### 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 C14H18N2O

| Chemical Name | Weight-% | Molecular weight | ENCS | ISHL No. | CAS RN     |
|---------------|----------|------------------|------|----------|------------|
| Ibudilast     | 98.0     | 230.31           | N/A  | N/A      | 50847-11-5 |

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

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
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 - nearly white crystals - powder **Appearance** no data available Odor Melting point/freezing point no data available no data available Boiling point, initial boiling point and boiling range **Flammability** no data available no data available **Evaporation rate:** Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

Upper: no data available

Lower:

Flash point

Auto-ignition temperature:

Decomposition temperature:

pH

Viscosity (coefficient of viscosity)

Dynamic viscosity

no data available

Solubilities methanol: Very soluble. Ethanol and Acetic anhydride: freely

soluble . water: very slightly soluble.

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)

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

| Chemical Name | Oral LD50        | Dermal LD50 | Inhalation LC50 |
|---------------|------------------|-------------|-----------------|
| Ibudilast     | 1340 mg/kg (Rat) | N/A         | N/A             |

Skin irritation/corrosion no data available
Serious eye damage/ irritation no data available
Respiratory or skin sensitization no data available
Reproductive cell mutagenicity no data available
Carcinogenicity no data available
Reproductive toxicity no data available

Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard
no data available
no data available
no data available

## **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Other data no data available

Persistence and degradability
Bioaccumulative potential

No information available
No information available

Mobility in soilNo information availableHazard to the ozone layerNo 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 Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

**Environmentally Hazardous** Not applicable

Substance

## **Section 15: REGULATORY INFORMATION**

International Inventories

EINECS/ELINCS -

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 Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable 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**