



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Feb-2023

Revision Number 5.02

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	duct Name Patulin		
Product Code	168-21631		
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

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

Skin corrosion/irritation

Category 2 Category 2

#### **Pictograms**



Signal word

Danger

#### **Hazard statements**

H315 - Causes skin irritation H300 - Fatal 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 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: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth

#### 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 C7H6O4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Patulin	98.5	154.12	N/A	N/A	149-29-1

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

Impurities and/or Additives: Not applicable
Source Penicillium expansum

### **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** Container protected from light, and store tightly closed in freezer (-20°C).

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
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** 

Color
Appearance
Odor
Melting point/freezing point
Melting point, initial boiling point and boiling range
Flammability
Evaporation rate:
No data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
no data available
Auto-ignition temperature:
no data available
no data available
no data available

рΗ no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available acetonitrile : soluble . Solubilities n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure Specific Gravity / Relative density no data available 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)

### Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Patulin	27790 ug/kg ( Rat )	N/A	N/A	

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

Carcinogenicity

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Patulin		Group 3		
149-29-1				

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

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

UN2811 **UN number** 

Proper shipping name: Toxic solid, organic, n.o.s. (Patulin)

**UN classfication** 

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IMDG** 

**UN** number

Proper shipping name: Toxic solid, organic, n.o.s. (Patulin)

**UN classfication** 6.1

Subsidiary hazard class

Packing group

Not applicable Marine pollutant (Sea)

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA

**UN** number UN2811

Proper shipping name: Toxic solid, organic, n.o.s. (Patulin)

**UN classfication** 

Subsidiary hazard class

Packing group

Not applicable **Environmentally Hazardous** 

Substance

### **Section 15: REGULATORY INFORMATION**

International Inventories

**EINECS/ELINCS** Listed **TSCA** 

Japanese regulations

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

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance Regulations for the carriage

and storage of dangerous goods in ship

**Civil Aeronautics Law** 

Regarding Transport by Ship and Storage, Attached Table 1)

Toxic and Infectious Substances (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~)

Not applicable **Export Trade Control Order** 

# **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

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**