



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Folpet Standard
Product Code	068-03461
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 - Inhalation (Dusts/Mists)Category 2Skin sensitizationCategory 1CarcinogenicityCategory 2Reproductive ToxicityCategory 2Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1

Pictograms



Hazard statements

H330 - Fatal if inhaled

H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

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)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- 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 exposed or concerned: Get medical advice/attention

- 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
- 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 C9H4Cl3NO2S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Folpet	98.0	296.56	(5)-6551	8-(1)-636	133-07-3

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

^{*} in the table means announced chemical substances.

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 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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Folpet	N/A	N/A	TWA: 1 mg/m³ inhalable
133-07-3			particulate matter

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 white

Appearance crystalline powder no data available Melting point/freezing point 176 - 184 °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

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
Decomposition temperature:
no data available
pH
no data available
Viscosity (coefficient of viscosity)
no data available
Dynamic viscosity
no data available

Solubilities 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), Sulfur oxides (SOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Folpet	2636 mg/kg (Rat)	> 5000 mg/kg (Rat) > 22600 mg/kg (Rabbit)	>5 g/m³ (Rat) 2 h (mist)

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

Skin irritation/corrosion

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

Serious eye damage/irritation

Serious ava damage/irritation source information

Chemical Name			Serious eye damage/irritation source information		
Folpet		Base	Based on the NITE GHS classification results.		
Respiratory or skin sensitization					
Chemical Name			Respiratory or SI	kin sensitization s	ource information
Folpet		Base	ed on the NITE GH	IS classification res	ults.
Reproductive cell mutagenicity					
Chemical Name			germ cell m	utagencity source	information
Folpet		Base	ed on the NITE GH	IS classification res	ults.
Carcinogenicity					
Chemical Name			Carcino	genicity source in	ormation
Folpet		Base	ed on the NITE GH	IS classification res	ults.
Chemical Name	NTP		IARC	ACGIH	JSOH (Japan)
Folpet				A3	
133-07-3					
Reproductive toxicity					
Chemical Name			Reproductive toxicity source information		
Folpet		Base	Based on the NITE GHS classification results.		
STOT-single exposure					
Chemical Name			STOT -single exposure- source information		
Folpet		Base	Based on the NITE GHS classification results.		
STOT-repeated exposure					
Chemical Name			STOT -repeated exposure- source information		
Folpet			Based on the NITE GHS classification results.		
Aspiration hazard					
Chemical Name			Aspiration Hazard source information		
Folpet		Base	ed on the NITE GH	IS classification res	ults.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Folpet	N/A	LC50 : Oncorhychus mykiss	N/A
		0.015 mg/L	

Other data

	Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
		aquatic environment source information	aquatic environment source information	
ſ	Folpet	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

Chemical Name

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. (Folpet)

UN classfication

Subsidiary hazard class

Packing group Marine pollutant Yes

IMDG

UN number UN2811

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

UN classfication

Subsidiary hazard class

Packing group Marine pollutant (Sea) Yes

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN2811 **UN** number

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

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

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

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

(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.

Record of SDS revisions

The following contents were revised. Regulatory information.

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 Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet