



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 27-Mar-2024

Revision Number 5.02

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Thiacloprid Standard		
Product Code	203-15763		
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 4Acute toxicity - Inhalation (Dusts/Mists)Category 4CarcinogenicityCategory 2Reproductive ToxicityCategory 1BSpecific target organ toxicity (single exposure)Category 1

Category 1 nervous system

Specific target organ toxicity (repeated exposure)

Category 2

Category 2 liver, thyroid gland

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 2

### **Pictograms**



## Hazard statements

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H351 - Suspected of causing cancer

H360 - May damage fertility or the unborn child

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: nervous system

H373 - May cause damage to the following organs through prolonged or repeated exposure: liver, thyroid gland

### **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

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

## Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- 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 C10H9CIN4S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Thiacloprid	97.0	252.72	N/A	8-(1)-2696	111988-49-9

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

### **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 tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas. Store locked up.

Safe packaging material

Glass

Incompatible substances

Strong oxidizing agents, Acids

## **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
Thiacloprid	N/A	N/A	TWA: 0.2 mg/m <sup>3</sup> inhalable
111988-49-9			particulate matter
			Skin

### 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 - powder
Odor no data available

Odor
Melting point/freezing point
134 - 138 °C
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
no data available
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 **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available **Solubilities** acetone: soluble. n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density 1.46

Vapour 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, Acids

**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
Thiacloprid	N/A	N/A	> 2.5 mg/L (Rat) 4 h
-			= 1.2 mg/L (Rat) 4 h

Chemical Name	,	Acute toxicity -dermal- source	,
	information	information	source information
Thiacloprid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

	classification results.	classification results.	classification	n results.	
			•		
Chemical Name	Acute toxicity -inhalation vapor- source information		sour	ce information	
Thiacloprid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the classification	ne NITE GHS on results.	
Skin irritation/corrosion					
Chemical	Name	Skin corrosion/irrita	tion source	information	
Thiaclo		Based on the NITE GHS class			
Serious eye damage/ irritation					
Chemical	Name	Serious eye damage/ir	ritation sour	ce information	
Thiaclo	orid	Based on the NITE GHS class	fication resu	lts.	
Respiratory or skin sensitization		- '			
Chemical	Name	Respiratory or Skin sens	itization so	urce information	
Thiaclo	prid	Based on the NITE GHS class	fication resu	lts.	
Reproductive cell mutagenicity					
Chemical Name		germ cell mutagencity source information			
Thiaclo	prid	Based on the NITE GHS classification results.			
Carcinogenicity		•			
Chemical	Name	Carcinogenicity	source info	rmation	
Thiaclo	prid	Based on the NITE GHS class	Based on the NITE GHS classification results.		
Chemical Name	NTP	IARC	CGIH	JSOH (Japan)	
Thiacloprid	N/A	N/A	A3	N/A	
111988-49-9					
Reproductive toxicity					
Chemical	Name	Reproductive toxicity source information			
Thiaclo	orid	Based on the NITE GHS classification results.			
STOT-single exposure					
Chemical Name		STOT -single exposure- source information			
Thiacloprid		Based on the NITE GHS classification results.			
STOT-repeated exposure					
	Chemical Name		STOT -repeated exposure- source information		
	Thiacloprid		Based on the NITE GHS classification results.		
Aspiration hazard					
Chemical Name		Aspiration Hazard source information			
Thiaclo		Based on the NITE GHS class			

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** no data available

Other data

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

# **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

UN3077 **UN** number

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

**UN classfication** 

Subsidiary hazard class Packing group Ш Marine pollutant Yes

**IMDG** 

UN3077 **UN** number

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

**UN classfication** 

Subsidiary hazard class

Ш **Packing group** Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

LIN3077 **UN** number

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

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

Substance

## **Section 15: REGULATORY INFORMATION**

Japanese regulations

**Fire Service Act** Not applicable

**Poisonous and Deleterious** Deleterious Substances 3rd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act ( 2024.4.1~ ] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

2024~) 【2024.4.1~】Notifiable Substances (Law Art.57-2)

【2024.4.1~】Chemical 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 Class 1

Register Law (2023.4.1-)

619 Class 1 - No.

**Export Trade Control Order** Not applicable

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
,	3-(6-chloropyridin-3-ylmethyl)-1,3 -thiazolidin-2-ylidenecyanamide	98.0	2024/4/1
	(alias: thiacloprid)		

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Thiacloprid 111988-49-9 ( 97.0 )	Applicable	-	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

**Record of SDS revisions**The following contents were revised. Prodauct and company Identification. Hazards

identification. First aid measures. Accidental release measures. Handling and storage. Exposure controls/personal protection. Stability and reactivity. Toxicological information.

Transport information. 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**