



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 15-Sep-2023 Revision Number 5.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Pyraclostrobin Standard
Product Code	163-22921
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741
Emergency telephone number	Fax: +81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571
Recommended uses Restrictions on use	For research use only 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) **Reproductive Toxicity** Specific target organ toxicity (single exposure) Category 3 Respiratory irritation Specific target organ toxicity (repeated exposure) Category 2 blood system, duodenum, liver Acute aquatic toxicity Chronic aquatic toxicity

Category 3 Category 2 Category 3	
Category 2	

Category 1 Category 1

**Pictograms** 



Signal word

#### **Hazard statements**

H331 - Toxic if inhaled

H361 - Suspected of damaging fertility or the unborn child

H335 - May cause respiratory irritation

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H373 - May cause damage to the following organs through prolonged or repeated exposure: blood system, duodenum, liver

## **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
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Avoid release to the environment

Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- Call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Collect spillage

#### Precautionary statements-(Storage)

- · Store in a well-ventilated place. Keep container tightly closed
- 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

C19H18CIN3O4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Pyraclostrobin	98.0	387.82	N/A	8-(2)-2073	175013-18-0
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

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

#### Storago

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Store locked up.
Glass
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 Eye protection Skin and body protection General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range

White - yellow crystalline powder - powder no data available 67 °C 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:	no data available
Lower:	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	Ethanol and acetone : soluble . water : practically insoluble,or
	insoluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
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 dire	ct sunlight
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition product	S
Carbon monooxide (CO), Carbon	dioxide (CO2), Nitrogen oxides (NOx), Halides

## Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Pyraclostrobin	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	0.58 mg/L (Rat)
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information

	Information	Information	
Pyraclostrobin	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	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Pyraclostrobin	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

#### Skin irritation/corrosion

Chemical Name Skin corrosion/irritation source inform	
Pyraclostrobin	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Pyraclostrobin	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Pyraclostrobin	Based on the NITE GHS classification results.

**Reproductive cell mutagenicity** 

Reproductive cen matagementy		
Chemical Name	germ cell mutagencity source information	
Pyraclostrobin	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Pyraclostrobin	Based on the NITE GHS classification results.	

## Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Pyraclostrobin	Based on the NITE GHS classification results.
STOT-single exposure	·
Chemical Name	STOT -single exposure- source information
Pyraclostrobin	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Pyraclostrobin	Based on the NITE GHS classification results.
Aspiration hazard	· · · ·
Chemical Name	Aspiration Hazard source information
Pyraclostrobin	Based on the NITE GHS classification results.

## Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Pyraclostrobin	N/A	N/A	LC50 : Mysidopsis bahia
			0.00416 mg a s./L 96 h

#### Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Pyraclostrobin	Based on the NITE GHS classification results.	Based on the NITE GHS classification 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	UN2811		
Proper shipping name:	Toxic solid, organic, n.o.s. (Pyraclostrobin)		
UN classfication	6.1		
Subsidiary hazard class			
Packing group	III		
Marine pollutant	Yes		
IMDG UN number	UN2811		

Proper shipping name: UN classfication	Toxic solid, organic, n.o.s. (Pyraclostrobin) 6.1
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	
ΙΑΤΑ	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (Pyraclostrobin)
UN classfication	6.1
Subsidiary hazard class	
Packing group	111
Environmentally Hazardous	Yes
Substance	

## Section 15: REGULATORY INFORMATION

<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious Substances Control Law	Not applicable Deleterious Substances 3rd. Grade		
Industrial Safety and Health Ac	Industrial Safety and Health Act Not applicable		
Regulations for the carriage and storage of dangerous goods in ship	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)		
Civil Aeronautics Law	Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)		
Pollutant Release and Transfer Register Law (2023.4.1-)	Not applicable		
Export Trade Control Order	Not applicable		

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(2023.4.1-)
Pyraclostrobin	Applicable	-	-
175013-18-0 ( 98.0 )			

# 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. Ecological 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