



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 27-Feb-2024

Revision Number 1.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Trifloxystrobin Standard
Product Code	207-15783

Supplier FUJIFILM Wako Pure Chemical Corporation

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Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

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**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

Skin sensitizationCategory 1Reproductive Toxicity(additional)Specific target organ toxicity (repeated exposure)Category 2

Category 2 liver

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1

Category 1

**Pictograms** 



### **Hazard statements**

H362 - May cause harm to breast-fed children

H317 - May cause an allergic skin reaction

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: liver

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

- · Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Avoid release to the environment

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

- Get medical advice/attention if you feel unwell
- 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)

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 C20H19F3N2O4

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Trifloxystrobin	99.0	408.37	N/A	N/A	141517-21-7

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.

#### **Eve 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

Store away from sunlight in a cool (2-10 °C) well-ventilated dry place. Storage conditions

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 (JIS T 8151)

chemical protective gloves (JIS T 8116) Hand protection

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Long-sleeved work clothes Skin and body protection

**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** 

white Color

**Appearance** crystalline powder - powder

Odor no data available 72 - 76 °C Melting point/freezing point

Boiling point, initial boiling point and boiling range

312 °C **Flammability** no data available **Evaporation rate:** no data available Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

Upper:no data availableLower:no data available

Flash point >70 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities acetone: free soluble, water: practically insoluble, or insoluble

n-Octanol/water partition coefficient:(log Pow) 4.5

Vapour pressure no data available

Specific Gravity / Relative density 1.36

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

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trifloxystrobin	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	N/A

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

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
	vapor- source information	Source information	Source information
Trifloxystrobin	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
Trifloxystrobin	Based on the NITE GHS classification results.

Serious eye damage/ irritation

	Chemical Name	Serious eye damage/irritation source information
	Trifloxystrobin	Based on the NITE GHS classification results.
- 1	5 t 4	

Nespiratory of skill sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Trifloxystrobin	Based on the NITE GHS classification results.	

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Trifloxystrobin	Based on the NITE GHS classification results.
Carcinogenicity	

**Chemical Name** Carcinogenicity source information Based on the NITE GHS classification results. Trifloxystrobin

Reproductive toxicity

Reproductive toxicity source information **Chemical Name** Based on the NITE GHS classification results. Trifloxystrobin

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Trifloxystrobin	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Trifloxystrobin	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Trifloxystrobin	Based on the NITE GHS classification results.

## **Section 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Trifloxystrobin	N/A	LC50 : Oncorhynchus mykiss	N/A
-		0.015 mg/L 96 h	

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
Trifloxystrobin	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

No information available Persistence and degradability No information available **Bioaccumulative potential** Mobility in soil No information available Hazard to the ozone layer 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 UN3077

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

**UN classfication** 

Subsidiary hazard class

**Packing group** Ш Marine pollutant Yes

**IMDG** 

UN number UN3077

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

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN number UN3077

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

UN classfication

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

**Substance** 

### Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Substances Control Law
Not applicable
Not applicable

Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act ( 2024~)

Regulations for the carriage

and storage of dangerous

goods in ship Civil Aeronautics Law Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

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

Transport by Ship and Storage, Attached Table 1)

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-)

Class 1 - No. 444

Export Trade Control Order Not applicable

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-)
Trifloxystrobin 141517-21-7 ( 99.0 )	-	-	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.

etc

**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**