



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 02-May-2024

Revision Number 1

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Vinclozolin Reference Material [CRM]
Product Code	229-02491

**Supplier** FUJIFILM Wako Pure Chemical Corporation

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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 1CarcinogenicityCategory 2Reproductive ToxicityCategory 1B

Specific target organ toxicity (repeated exposure) Category 1, Category 2

Category 1 Visual organ

Category 2 adrenal gland, Male reproductive system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 2
Category 1

**Pictograms** 



Signal word

Danger

### **Hazard statements**

H351 - Suspected of causing cancer

H360 - May damage fertility or the unborn child

H317 - May cause an allergic skin reaction

H401 - Toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H372 - Causes damage to the following organs through prolonged or repeated exposure: Visual organ

H373 - May cause damage to the following organs through prolonged or repeated exposure: adrenal gland, Male reproductive system

#### **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
- · Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves

- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · 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 C12H9Cl2NO3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Vinclozolin	98.0	286.11	N/A	8-(7)-162	50471-44-8

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.

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 )

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 crystals - powder
Odor no data available
Melting point/freezing point 107 - 112 °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 available
Napour pressure
No data available
Napour density
Napour density
No data available
Particle characteristics
No data available
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), Nitrogen oxides (NOx), Halides

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Vinclozolin	> 10,000 mg/kg (Rat)	> 2,500 mg/kg (Rat)	>29 mg/L (Rat)

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Vinclozolin	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
Vinclozolin	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
Vinclozolin	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Vinclozolin	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Vinclozolin	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Vinclozolin	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Vinclozolin	Based on the NITE GHS classification results.
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Vinclozolin	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Vinclozolin	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Vinclozolin	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information

## **Section 12: ECOLOGICAL INFORMATION**

Based on the NITE GHS classification results.

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Vinclozolin	EC50 : Lemna gibba	LC50 : Oncorhynchus mykiss	EC50 : Daphnia magna
	0.9 mg/L 5 d	2.84 mg/mL 96 h	3.65 mg/mL 48 h

## Other data

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

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

Vinclozolin

## **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. (Vinclozolin)

**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. (Vinclozolin)

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

No information available Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN3077 **UN** number

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

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

#### Section 15: REGULATORY INFORMATION

Japanese regulations

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

**Substances Control Law** 

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

Transport by Ship and Storage, Attached Table 1)

Notifiable Substances (Law Art.57-2)

Chemical Substances Hazardous to Skin, etc. (Regulations Article 594-2 Paragraph 1) Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Regulations for the carriage and storage of dangerous

goods in ship

**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 Not applicable

Register Law (2023.4.1-)

**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-)
Vinclozolin 50471-44-8 ( 98.0 )	-	Applicable	-

#### **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) ://www.chem-info.nite.go.jp/chem/chrip/chrip\_search/systemTop

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 Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**