



## SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 3.06

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Pyridaphenthion Standard	
Product Code	169-10914	
Supplier	FUJIFILM Wako Pure Chemical Corporation	

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

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**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 - Oral Category 4

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

Category 1 nervous system

Category 2 gastrointestinal tract, eye

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 nervous system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

**Pictograms** 



## **Hazard statements**

H302 - Harmful if swallowed

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H370 - Causes damage to the following organs: nervous system

H371 - May cause damage to the following organs: gastrointestinal tract, eye

H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous system

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

- 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: Call a POISON CENTER or doctor/physician
- 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 C14H17N2O4PS

	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
ĺ	Pyridaphenthion	99.0	340.33	(5)-5598	N/A	119-12-0

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.

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Pyridaphenthion	TWA: 0.2 mg/m <sup>3</sup> OEL	N/A	N/A
119-12-0	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 slightly yellow - pale yellow

Appearance crystalline powder no data available Melting point/freezing point 54.5 - 56.5 °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 , methanol , Diethyl ether : Very soluble. hexane :

Sparingly 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
No data available

## Section 10: STABILITY AND REACTIVITY

#### Stability

**Reactivity** no data available

**Chemical stability** Instable in alkali. 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), Phosphorus oxide

## **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Addit toxicity					
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50		
Pyridaphenthion	813 mg/kg (Rat) 424 mg/kg (Rat)	> 2 g/kg (Rabbit)	1100 mg/m³ (Rat) 4 h		

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

Serious eye damage/ irritation

Serious eye damage/irritation source information
Based on the NITE GHS classification results.
Respiratory or Skin sensitization source information
Based on the NITE GHS classification results.
germ cell mutagencity source information
Based on the NITE GHS classification results.
Carcinogenicity source information
Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Pyridaphenthion	-	Group 2A	-	-
119-12-0				

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

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

## **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Pyridaphenthion	N/A	LC50 : Oncorhynchus mykiss	EC50:Daphnia magna
		7.5 mg/L 96 h	0.00051 mg/L 48 h

Other data

Unior water					
Chemical Name	Short-term (acute) hazardous to the	erm (acute) hazardous to the Long-term (chronic) hazardous to the			
	aquatic environment source information	aquatic environment source information			
Pyridaphenthion	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. (Pyridaphenthion)

**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. (Pyridaphenthion)

**UN classfication** 

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

**IATA** 

**UN** number UN3077

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

**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 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

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)

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-)

Not applicable **Export Trade Control Order** 

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-)
Pyridaphenthion	-	Applicable	-
119-12-0 ( 99.0 )			

## **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 Disclaimer

The following contents were revised. Regulatory information.

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**