



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 11-Sep-2024

Revision Number 2.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	ECP Standard
Product Code	056-03503

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

Acute toxicity - OralCategory 3Acute toxicity - DermalCategory 3Acute toxicity - Inhalation (Vapors)Category 4Serious eye damage/eye irritationCategory 2BSkin sensitizationCategory 1Specific target organ toxicity (single exposure)Category 1

Category 1 nervous system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

### **Pictograms**

Signal word



# **Hazard statements**

H320 - Causes eye irritation

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H332 - Harmful if inhaled

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: nervous system

# **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection

Danger

· Use only outdoors or in a well-ventilated area

- · Contaminated work clothing should not be allowed out of the workplace
- 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- 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: Immediately call a POISON CENTER or doctor/physician
- · 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 C10H13Cl2O3PS

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Dichlofenthion	98.0	315.15	(3)-4112	4-(9)-190	97-17-6

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

#### 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**

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Storage

# Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Store

locked up.

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 Protective mask

chemical protective gloves (JIS T 8116) Hand protection

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

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** 

Color colorless **Turbidity** clear **Appearance** liquid

Odor characteristic odor Melting point/freezing point no data available 143 - 143.5 °C Boiling point, initial boiling point and boiling range no data available **Flammability Evaporation rate:** no data available Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

no data available Upper: Lower: no data available Flash point no data available no data available **Auto-ignition temperature: Decomposition temperature:** no data available no data available pН Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available

**Solubilities** Ethanol: Very soluble. water: practically insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure Specific Gravity / Relative density 1.31 g/mL no data available Vapour density **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 direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Sulfur oxides (SOx), Halides, Phosphorus oxide

# Section 11: TOXICOLOGICAL INFORMATION

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

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dichlofenthion	172 mg/kg (Rat)	N/A	N/A

	136 mg/kg (Rat)				
	, , ,				
Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information		
Dichlofenthion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	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		
Dichlofenthion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.		
Skin irritation/corrosion					
	ical Name		ion source information		
=	ofenthion	Based on the NITE GHS classif	ication results.		
Serious eye damage/ irritation					
	Chemical Name		itation source information		
	Dichlofenthion		ication results.		
Respiratory or skin sensitizati					
	Chemical Name		Respiratory or Skin sensitization source information		
Dichlofenthion		Based on the NITE GHS classif	ication results.		
Reproductive cell mutagenicit		1 "			
	ical Name	germ cell mutagencity source information			
	ofenthion	Based on the NITE GHS classification results.			
Carcinogenicity		1 0			
	ical Name	Carcinogenicity source information  Based on the NITE GHS classification results.			
Dichlofenthion		Based on the NITE GHS classification results.			
Reproductive toxicity					
	ical Name	Reproductive toxicity source information			
	ofenthion	Based on the NITE GHS classification results.			
STOT-single exposure					
Chemical Name		STOT -single exposure- source information			
Dichlofenthion		Based on the NITE GHS classification results.			
STOT-repeated exposure					
Chemical Name		STOT -repeated exposure- source information			
Dichlofenthion		Based on the NITE GHS classification results.			
Aspiration hazard					
	ical Name	Aspiration Hazard source information			
Dichlofenthion		Based on the NITE GHS classification results.			

# **Section 12: ECOLOGICAL INFORMATION**

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

**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
Dichlofenthion	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

UN3018 **UN** number

Proper shipping name: Organophosphorus pesticide, liquid, toxic (Dichlofenthion)

**UN classfication** 

Subsidiary hazard class

Packing group Marine pollutant Yes

**IMDG** 

UN3018 **UN** number

Proper shipping name: Organophosphorus pesticide, liquid, toxic (Dichlofenthion)

**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** 

UN3018 **UN** number

Proper shipping name: Organophosphorus pesticide, liquid, toxic (Dichlofenthion)

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

### Section 15: REGULATORY INFORMATION

Japanese regulations

**Fire Service Act** Category IV, Class III petroleums, dangerous grade 3 Deleterious Substances 3rd. Grade

**Poisonous and Deleterious** 

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

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

[2025.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

2024~) Industrial Safety and Health Act ( 2025~)

Regulations for the carriage

【2025.4.1~】Notifiable Substances (Law Art.57-2)

and storage of dangerous

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

goods in ship

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 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-)
Dichlofenthion 97-17-6 ( 98.0 )	Applicable	-	-

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

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

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**