



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 15-Sep-2023 Revision Number 6.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Chlorpyrifosmethyl Standard
Product Code	031-09673
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

# Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Reproductive Toxicity Specific target organ toxicity (single exposure) Category 2 nervous system Specific target organ toxicity (repeated exposure) Category 1 nervous system Acute aquatic toxicity Chronic aquatic toxicity

Category 4
Category 2
Category 2

Category 1

Category 1 Category 1

Pictograms



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### Hazard statements

- H302 Harmful if swallowed
- H361 Suspected of damaging fertility or the unborn child
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life
- H371 May cause damage to the following organs: nervous system
- H372 Causes damage to the following organs through prolonged or repeated exposure: nervous 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
- 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 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

### C7H7Cl3NO3PS

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Chlorpyriphos-methyl	99.0	322.53	N/A	8-(1)-1943	5598-13-0
Note on ISHL No.:	* in the table means announced chemical substances.				

Note on ISHL No.:

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.

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.

### <u>Storage</u>

Safe storage conditions Storage conditions Safe packaging material Incompatible substances

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. 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<br/>Respiratory protection<br/>Hand protection<br/>Eye protection<br/>Skin and body protectionDust mask ( JIS T<br/>chemical protective<br/>protective eyeglas<br/>Long-sleeved worGeneral hygiene considerationsLong-sleeved wor

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

Handle in accordance with good industrial hygiene and safety practice.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form Color Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability Evaporation rate:

White - nearly white crystals - crystalline powder no data available 45 - 48 °C no data available no data available no data available

Flammability (solid, gas): Upper/lower flammability or explosive limits	no data available
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	acetone : freely soluble . Ethanol : Sparingly soluble . water : 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

Reactivityno data availableChemical stabilityno data availableIs rapidly hydrolyzed by alkali May be altered by light.Hazardous reactionsNone under normal processingConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsHazardous decomposition productsCarbon monooxide (CO), Carbon to ixide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx), Phosphorus oxide, Halides

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorpyriphos-methyl	1828 mg/kg (Rat)	> 2000 mg/kg (Rat) > 2 g/kg (Rabbit) 3713 mg/kg (Rat)	> 670 mg/m³ (Rat)4 h

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

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

Skin irritation/corrosion

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

Chemical Name		germ cell mu	germ cell mutagencity source information		
Chlorpyriphos-methyl		Based on the NITE GHS	6 classification re	sults.	
Carcinogenicity					
Chemical Name		Carcinog	enicity source ir	formation	
Chlorpyriphos-methyl		Based on the NITE GHS	6 classification re	sults.	
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)	
Chlorpyriphos-methyl 5598-13-0	-	Group 2A	-	-	
Reproductive toxicity					
Chemical Name		Reproductive toxicity source information			
Chlorpyriphos-methyl	Chlorpyriphos-methyl		Based on the NITE GHS classification results.		
STOT-single exposure					
Chemical Name		STOT -single exposure- source information			
Chlorpyriphos-methyl		Based on the NITE GHS classification results.			
STOT-repeated exposure		· ·			
Chemical Name		STOT -repeated exposure- source information			
Chlorpyriphos-methyl		Based on the NITE GHS classification results.			
Aspiration hazard					
Chemical Name		Aspiration Hazard source information			
Chlorpyriphos-methyl		Based on the NITE GHS classification results.			

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Chlorpyriphos-methyl	N/A	N/A	EC50 : Daphnia magna
			0.62 µg/L 48 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
		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	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Chlorpyriphos-methyl)
UN classfication	9
Subsidiary hazard class	
Packing group	
Marine pollutant	Yes
-	

IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN3077 Environmentally hazardous substance, solid, n.o.s. (Chlorpyriphos-methyl) 9 III Yes No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Environmentally Hazardous Substance	UN3077 Environmentally hazardous substance, solid, n.o.s. (Chlorpyriphos-methyl) 9 III Yes

# Section 15: REGULATORY INFORMATION

Japanese regulations		
Fire Service Act	Not applicable	
Poisonous and Deleterious	Not applicable	
Substances Control Law		
Industrial Safety and Health ActNot applicable		
Regulations for the carriage	Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding	
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)	
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)	
Marine Pollution Prevention Law	Marine pollutants (P and PP substances)	
Pollutant Release and Transfer Register Law (2023.4.1-)	Not applicable	
Export Trade Control Order	Not applicable	
Section 16: OTHER INFORMATION		
Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)	

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

### 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