



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 01-Apr-2022 Revision Number 1.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	PAP Standard
Product Code	161-27081
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964
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 and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only

Section 2: HAZARDS IDENTIFICATION

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

Category 3 Category 4 Category 2 Category 1 Category 2

Category 1 Category 1

Pictograms



Hazard statements

- H301 Toxic if swallowed
- H332 Harmful if inhaled
- H361 Suspected of damaging fertility or the unborn child
- 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
- H373 May cause damage to the following organs through prolonged or repeated exposure: blood system, liver

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
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- 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 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

Substance

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Formula

C12H17O4PS2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Phenthoate	97.0	320.36	(3)-2615	公表	2597-03-7
Note on ISHL No.: * in the table means announced chemical substances.					

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.

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 Hand protection Eye protection Skin and body protection General hygiene considerations	Protective mask Protective gloves 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	Colorless - slight yellow
Turbidity	clear
Appearance	liquid
Odor	no data available
Melting point/freezing point	17-18 °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:	no data available
Lower:	no data available
Flash point	165-170 °C
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	Ethanol, acetone: freely soluble. water: practically
	insoluble,or insoluble .
n-Octanol/water partition coefficient:(log Pow)	3.69
Vapour pressure	no data available
Specific Gravity / Relative density	1.23 g/mL
Vapour density	no data available
Particle characteristics	no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity Chemical stability	no data available May be altered by light.
Hazardous reactions	
None under normal processing	
Conditions to avoid	
Extremes of temperature and dire	ect sunlight, Heat, flames and sparks, static electricity, spark
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition product	
Carbon monooxide (CO), Carbon	dioxide (CO2), Sulfur oxides (SOx), Phosphorus oxide
Conditions to avoid Extremes of temperature and dire Incompatible materials Strong oxidizing agents Hazardous decomposition product	

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phenthoate	249 mg/kg (Rat)	2,620 mg/kg(Rat)	59 mg/m³ (Rat)4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Phenthoate	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	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Phenthoate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS

cl	assification results.	classification results.	classification results.	
Skin irritation/corrosion Chemical Na		Skin correction	limitation course information	
			Skin corrosion/irritation source information	
Phenthoat	e	Based on the NITE GHS	classification results.	
Serious eye damage/ irritation				
Chemical Na	ame	Serious eye dama	ge/irritation source information	
Phenthoat	e	Based on the NITE GHS	classification results.	
Respiratory or skin sensitization				
Chemical Na	ame	Respiratory or Skin	sensitization source information	
Phenthoat	е	Based on the NITE GHS	classification results.	
Reproductive cell mutagenicity				
Chemical Na	ame	germ cell mutagencity source information		
Phenthoat	е	Based on the NITE GHS	classification results.	
Carcinogenicity		·		
Chemical Na	ame	Carcinoger	nicity source information	
Phenthoat	е	Based on the NITE GHS classification results.		
	0			
Reproductive toxicity				

Chemical Name	Reproductive toxicity source information	
Phenthoate	Based on the NITE GHS classification results.	
STOT-single exposure		
Chemical Name	STOT -single exposure- source information	
Phenthoate	Based on the NITE GHS classification results.	
STOT-repeated exposure		
Chemical Name	STOT -repeated exposure- source information	
Phenthoate	Based on the NITE GHS classification results.	
Aspiration hazard		
Chemical Name	Aspiration Hazard source information	
Phenthoate	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phenthoate	N/A	N/A	EC50 : Daphnia magna
			0.00025 ma/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
Phenthoate	Based on the NITE GHS classification results.	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	UN3018
Proper shipping name:	Organophosphorus pesticide, liquid, toxic (Phenthoate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	III
Marine pollutant	Yes
IMDG	
UN number	UN3018
Proper shipping name:	Organophosphorus pesticide, liquid, toxic (Phenthoate)
UN classfication	6.1
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	
ΙΑΤΑ	
UN number	UN3018
Proper shipping name:	Organophosphorus pesticide, liquid, toxic (Phenthoate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed -	
Japanese regulations		
Fire Service Act	Category IV, Class III petroleums, dangerous grade 3	
Poisonous and Deleterious	Deleterious Substances 3rd. Grade	
Substances Control Law		
Industrial Safety and Health ActNot applicable		
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance	
and storage of dangerous	Regarding Transport by Ship and Storage, Attached Table 1)	
goods in ship		
Civil Aeronautics Law	Toxic and Infectious Substances (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	Class 1	
Register Law		
(~2023.3.31)		
Class 1 - No.	233	
Pollutant Release and Transfer	<u>Class 1</u>	
Register Law		
<u>(2023/4/1~)</u> Class 1 - No.	233	
Export Trade Control Order	Not applicable	

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Phenthoate	Applicable	-	Applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
2597-03-7 (97.0)			

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) 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
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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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet