



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 17-May-2023

Revision Number 1.07

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	PMP Standard
Product Code	163-09221

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
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 +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

Supplier

Classification of the substance or mixture

Acute toxicity - OralCategory 3Acute toxicity - Inhalation (Dusts/Mists)Category 2Serious eye damage/eye irritationCategory 2BReproductive ToxicityCategory 2Specific target organ toxicity (single exposure)Category 1

Category 1 nervous system

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

Category 1 nervous system

Category 2 liver

Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1

Pictograms



Hazard statements

H320 - Causes eye irritation

H301 - Toxic if swallowed

H330 - Fatal if inhaled

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

H370 - Causes damage to the following organs: nervous system

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

H373 - May cause damage to the following organs through prolonged or repeated exposure: 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
- 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 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 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 C11H12NO4PS2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Phosmet	98.0	317.32	N/A	8-(1)-1257	732-11-6

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

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. 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 Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116) **Eye protection** protective eyeglasses or chemical safety goggles

Long-sleeved work clothes

Skin and body protection

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color white

Appearance crystals - powder no data available Melting point/freezing point 71 - 73 °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

no data available Upper: no data available Lower: Flash point no data available **Auto-ignition temperature:** no data available no data available **Decomposition temperature:** no data available pН 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 availableVapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno 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), Sulfur oxides (SOx), Phosphorus oxide

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosmet	121.3 mg/kg (Rat) 92.5 mg/kg (Rat)	> 3160 mg/kg (Rabbit) 3160 mg/kg (Rabbit) 1326 mg/kg (Rat)	54 mg/m³(Rat)4 h > 0.152 mg/L (Rat)4 h

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

irritati		

Chemical Name	Skin corrosion/irritation source information
Phosmet	Based on the NITE GHS classification results.
Serious eve damage/ irritation	

Chemical Name	Serious eye damage/irritation source information		
Phosmet	Based on the NITE GHS classification results.		

Respiratory or skin sensitization

Chemical Name		Respiratory or Skin sensitization source information		
	Phosmet	Based on the NITE GHS classification results.		

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information		
Phosmet	Based on the NITE GHS classification results.		

Carcinogenicity

Chemical Name	Carcinogenicity source information	
Phosmet	Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Phosmet		Group 2A		
732-11-6		·		

Reproductive toxicity

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

STOT-single exposure

nemical Name STOT -single exposure- source information
Phosmet Based on the NITE GHS classification results.
Phosmet Based on the NITE GHS classification

STOT-repeated exposure

Chemical Name STOT -repeated exposure- source infor		STOT -repeated exposure- source information
Phosmet		Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name Aspiration Hazard source informatio		Aspiration Hazard source information
Phosmet		Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phosmet	N/A	LC50:Lepomis macrochirus	EC50:Daphnia magna
		0.015 - 0.033 mg/L 96 h	0.019 - 0.04 mg/L 48 h
		LC50:Oncorhynchus mykiss	EC50:Daphnia magna
		0.066 - 0.167 mg/L 96 h	0.042 - 0.084 mg/L 48 h
		LC50:Oncorhynchus mykiss	-
		0.105 - 0.136 mg/L 96 h	
		LC50:Oncorhynchus mykiss	
		0.46 - 0.68 mg/L 96 h	
		LC50:Cyprinus carpio	
		20 - 26 mg/L 96 h	
		LC50:Pimephales promelas	
		4.676 - 11.395 mg/L 96 h	
		LC50:Lepomis macrochirus	
		0.08 mg/L 96 h	

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	

Phosmet 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

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 UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Phosmet)

UN classfication 6.1

Subsidiary hazard class

Packing group II Marine pollutant Yes

IMDG

UN number UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Phosmet)

UN classfication 6.1

Subsidiary hazard class

Packing group II
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 UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Phosmet)

UN classfication

Subsidiary hazard class

Packing group II Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS Listed -

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 3rd. Grade

Substances Control Law

Industrial Safety and Health Act Not applicable

Regulations for the carriage To

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)

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) (~2024.3.31)	Pollutant Release and Transfer Register Law (2023.4.1-)
Phosmet 732-11-6 (98.0)	Applicable	-	-

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

Record of SDS revisions

The following contents were revised. Prodauct and company Identification. Exposure

controls/personal protection. Regulatory information.

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