



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 28-Feb-2024

Revision Number 3.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	(E)-Mevinphos Standard
Product Code	132-15521

Supplier FUJIFILM Wako Pure Chemical Corporation

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Recommended uses For research use only

Restrictions on useSeek 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 1Acute toxicity - DermalCategory 1Acute toxicity - Inhalation (Dusts/Mists)Category 1Specific target organ toxicity (single exposure)Category 1

Category 1 nervous system

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 nervous system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

Pictograms

Signal word



Hazard statements

H300 - Fatal if swallowed

H310 - Fatal in contact with skin

H330 - Fatal if inhaled

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

H372 - Causes damage to the following organs through prolonged or repeated exposure: 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
- Do not get in eyes, on skin, or on clothing
- Wear protective gloves/protective clothing/eye protection/face protection

Danger

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 ON SKIN: Gently wash with plenty of soap and water
- Immediately call a POISON CENTER or doctor/physician
- Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- 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 C7H13O6P

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
(E)-Mevinphos	98.0	224.15	N/A	N/A	298-01-1

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

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

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.

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152) **Hand protection** gas mask for organic gas (JIS T 8152)

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 Colorless - slightly yellow

Turbidity clear Appearance liquid

Odor no data available

Melting point/freezing point 21 °C

Boiling point, initial boiling point and boiling range
Flammability
no data available
ro data available
no data available
no data available
no data available
ro data available

Upper/lower flammability or explosive limits

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

Solubilities water , Ethanol and acetone : soluble .

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, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Phosphorus oxide

Section 11: TOXICOLOGICAL INFORMATION

Data was described as isomer mixtures (E -, Z -)(CAS No470-90-6).

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
(E)-Mevinphos	3 mg/kg (Rat)	4 mg/kg (Rat)	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
(E)-Mevinphos	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

Aspiration Hazard source information

Based on the NITE GHS classification results.

(E)-Mevinphos	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/ir	ritation source information		
(E)-Mevinphos		Based on the NITE GHS cla	Based on the NITE GHS classification results.		
Serious eye damage/ irritation	1				
Chem	nical Name	Serious eye damage	e/irritation source information		
(E)-N	Mevinphos	Based on the NITE GHS cla	assification results.		
Respiratory or skin sensitizat	ion				
Chem	nical Name	Respiratory or Skin s	ensitization source information		
(E)-Mevinphos		Based on the NITE GHS cla	Based on the NITE GHS classification results.		
Reproductive cell mutagenici	ty				
Chem	nical Name	germ cell mutagencity source information			
(E)-N	Mevinphos	Based on the NITE GHS classification results.			
Carcinogenicity					
Chem	nical Name	Carcinogenicity source information			
(E)-N	Mevinphos	Based on the NITE GHS classification results.			
Reproductive toxicity					
	nical Name	-	oxicity source information		
	(E)-Mevinphos Based on the NITE GHS classification resu		assification results.		
STOT-single exposure					
Chem	Chemical Name STOT -single exposure- source inform				
(E)-N	(E)-Mevinphos Based on the NITE GHS classification res		assification results.		
STOT-repeated exposure					
Chem	nical Name		STOT -repeated exposure- source information		
(E)-N	Mevinphos	Based on the NITE GHS cla	assification results.		
Aspiration hazard		·			

Section 12: ECOLOGICAL INFORMATION

Data was described as isomer mixtures (E -, Z -)(CAS No470-90-6).

Chemical Name

(E)-Mevinphos

Ecotoxicity No information available

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
į.	aquatic environment source information	aquatic environment source information	
(E)-Mevinphos	Based on the NITE GHS classification	Based on the NITE GHS classification	
l l	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 ((E)-Mevinphos)

UN classfication

Subsidiary hazard class

Packing group ı Marine pollutant Yes

IMDG

UN3018 **UN** number

Proper shipping name: Organophosphorus pesticide, liquid, toxic ((E)-Mevinphos)

UN classfication 6.1

Subsidiary hazard class

Packing group 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 UN3018

Proper shipping name: Organophosphorus pesticide, liquid, toxic ((E)-Mevinphos)

UN classfication 6.1

Subsidiary hazard class

Packing group Yes **Environmentally Hazardous**

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 Notifiable Substances (Law Art.57-2)

Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

2024~)

Regulations for the carriage

and storage of dangerous

goods in ship

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

Regarding Transport by Ship and Storage, Attached Table 1)

Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air **Civil Aeronautics Law**

Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention

Law

Marine pollutants (P and PP substances)

Pollutant Release and Transfer Not applicable

Register Law

(2023.4.1-)

Export Trade Control Order Not applicable

Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
Substances Control Law	Substances	Register Law
	(Law Art.57-2)	(2023.4.1-)
-	Applicable	-
		Substances Control Law Substances (Law Art.57-2)

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 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