



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 30-May-2023

Revision Number 5.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	EPN Oxon Standard
Product Code	059-06011

Manufacturer FUJIFILM Wako Pure Chemical Corporation

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**Supplier** FUJIFILM Wako Pure Chemical Corporation

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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

Classification of the substance or mixture

Acute toxicity - OralCategory 2Acute toxicity - DermalCategory 3Acute toxicity - Inhalation (Dusts/Mists)Category 1Serious eye damage/eye irritationCategory 2BReproductive ToxicityCategory 2

Specific target organ toxicity (single exposure) Category 1, Category 3

Category 1 nervous system Category 3 Narcotic effects

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**

H320 - Causes eye irritation

H300 - Fatal if swallowed

H311 - Toxic in contact with skin

H330 - Fatal if inhaled

H361 - Suspected of damaging fertility or the unborn child

Danger

H336 - May cause drowsiness or dizziness

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

# **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
- · Use only outdoors or in a well-ventilated area
- · 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 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 in a well-ventilated place. Keep container tightly closed
- · 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 C14H14NO5P

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
EPN oxon	97.0	307.24	N/A	N/A	2012-00-2

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), Foam, 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**

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Do not give shock. 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

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity) 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. 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 Dust mask ( JIS T 8151 )

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

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Color slightly yellow - pale yellow

Appearance crystalline powder - powder or mass

**Odor** no data available

Melting point/freezing point 33 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):

no data available
no data available
no data available

Upper/lower flammability or

explosive limits

Upper: no data available Lower: no data available Flash point no data available Auto-ignition temperature: no data available **Decomposition temperature:** no data available no data available pН Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available acetone: soluble. **Solubilities** no data available n-Octanol/water partition coefficient:(log Pow) 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

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, Shock

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Phosphorus oxide

# **Section 11: TOXICOLOGICAL INFORMATION**

Acute toxicity no data available

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Other data no data available

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 UN2811

**Proper shipping name:** Toxic solid, organic, n.o.s. (EPN oxon)

UN classfication 6.1

Subsidiary hazard class

Packing group | Marine pollutant Yes

**IMDG** 

UN number UN2811

**Proper shipping name:** Toxic solid, organic, n.o.s. (EPN oxon)

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 UN2811

**Proper shipping name:** Toxic solid, organic, n.o.s. (EPN oxon)

UN classfication 6.1

Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

**Substance** 

Yes

### Section 15: REGULATORY INFORMATION

**International Inventories** 

**EINECS/ELINCS TSCA** 

Japanese regulations

**Fire Service Act** Category V, nitro com pounds, dangerous grade 2

Poisonous and Deleterious

Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Not 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)

Pollutant Release and Transfer Not applicable

**Register Law** (2023.4.1-)

**Export Trade Control Order** Not 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.

The following contents were revised. Prodauct and company Identification. Fire fighting **Record of SDS revisions** 

measures. Handling and storage. Exposure controls/personal protection. Toxicological

information. Ecological information. 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**