

# SAFETY DATA SHEET

According to JIS Z 7253:2019  
**Revision Date** 16-Oct-2020  
 Version 5.02

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

|                     |                   |
|---------------------|-------------------|
| <b>Product name</b> | EPN Oxon Standard |
| <b>Product code</b> | 059-06011         |

**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  
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**Emergency telephone number** +81-6-6203-3741 / +81-3-3270-8571

**Recommended uses and restrictions on use** For research purposes

**Section 2: HAZARDS IDENTIFICATION**

**GHS classification**

**Classification of the substance or mixture**

|   |                        |
|---|------------------------|
| <b>Acute toxicity - Oral</b>                                    | Category 2             |
| <b>Acute toxicity - Dermal</b>                                  | Category 3             |
| <b>Acute toxicity - Inhalation (Dusts/Mists)</b>                | Category 1             |
| <b>Serious eye damage/eye irritation</b>                        | Category 2B            |
| <b>Reproductive Toxicity</b>                                    | Category 2             |
| <b>Specific target organ toxicity (single exposure)</b>         | Category 1, Category 3 |
| <b>Category 1</b> nervous system                                |                        |
| <b>Category 3</b> Narcotic effects                              |                        |
| <b>Specific target organ toxicity (repeated exposure)</b>       | Category 1             |
| <b>Category 1</b> nervous system                                |                        |
| <b>Short-term (acute) hazardous to the aquatic environment</b>  | Category 1             |
| <b>Long-term (chronic) hazardous to the aquatic environment</b> | Category 1             |

**Pictograms**



**Signal word**

Danger

**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
- H336 - May cause drowsiness or dizziness
- 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)

- 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
- Do not breathe dust/fume/gas/mist/vapors/spray
- 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 locked up.
- Store in a well-ventilated place. Keep container tightly closed

#### 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 C<sub>14</sub>H<sub>14</sub>NO<sub>5</sub>P

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

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 (CO<sub>2</sub>), 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 contaminant and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### Recovery, 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

Do not give shock. 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. 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 hand- and 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**

|                                 |  |
|---------------------------------|--|
| <b>Respiratory protection</b>   | gas mask for organic gas                         |
| <b>Hand protection</b>          | Protection gloves                                |
| <b>Eye protection</b>           | protective eyeglasses or chemical safety goggles |
| <b>Skin and body protection</b> | Long-sleeved work clothes                        |

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form**

|                   |                                     |
|-------------------|-------------------------------------|
| <b>Color</b>      | slightly yellow - pale yellow       |
| <b>Appearance</b> | crystalline powder - powder or mass |

**Odor**

No data available

**Melting point/freezing point**

33 °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**

No data available

**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**

acetone : soluble .

**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**

|                           |                          |
|---------------------------|--------------------------|
| <b>Reactivity</b>         | No data available        |
| <b>Chemical stability</b> | 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 monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Phosphorus oxide

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity**

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

Skin irritation/corrosion No data available

Serious eye damage/ irritation

| Chemical Name | Serious eye damage/irritation source information |
|---------------|--|
| EPN oxon      | Based on the NITE GHS classification results.    |

Respiratory or skin sensitization No data available

Reproductive cell mutagenicity No data available

Carcinogenicity No data available

Reproductive toxicity

| Chemical Name | Reproductive toxicity source information      |
|---------------|---|
| EPN oxon      | Based on the NITE GHS classification results. |

STOT-single exposure

| Chemical Name | STOT -single exposure- source information     |
|---------------|---|
| EPN oxon      | Based on the NITE GHS classification results. |

STOT-repeated exposure

| Chemical Name | STOT -repeated exposure- source information   |
|---------------|---|
| EPN oxon      | Based on the NITE GHS classification results. |

Aspiration hazard No data available

## Section 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available

Other data

| Chemical Name | Short-term (acute) hazardous to the aquatic environment source information | Long-term (chronic) hazardous to the aquatic environment source information |
|---------------|--|---|
| EPN oxon      | Based on the NITE GHS classification results.                              | Based on the NITE GHS classification results.                               |

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Hazard to the ozone layer 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 classification 6.1  
 Subsidiary hazard class  
 Packing group I  
 Marine pollutant Yes

IMDG

UN number UN2811  
 Proper shipping name: Toxic solid, organic, n.o.s. (EPN oxon)  
 UN classification 6.1  
 Subsidiary hazard class  
 Packing group I

|   |   |
|---|---|
| <b>Marine pollutant (Sea)</b>   | Yes                                     |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | No information available                |
| <b>IATA</b>   |   |
| <b>UN number</b>  | UN2811                                  |
| <b>Proper shipping name:</b>  | Toxic solid, organic, n.o.s. (EPN oxon) |
| <b>UN classification</b>  | 6.1                                     |
| <b>Subsidiary hazard class</b>  |   |
| <b>Packing group</b>  | I                                       |
| <b>Environmentally Hazardous Substance</b>                                      | Yes                                     |

## Section 15: REGULATORY INFORMATION

### International Inventories

|                      |   |
|----------------------|---|
| <b>EINECS/ELINCS</b> | - |
| <b>TSCA</b>          | - |

### Japanese regulations

|  |   |
|--|---|
| <b>Fire Service Act</b>  | Category V, nitro compounds, dangerous grade 2  |
| <b>Poisonous and Deleterious Substances Control Law</b>                    | Not applicable  |
| <b>Industrial Safety and Health Act</b>                                    | Not applicable  |
| <b>Regulations for the carriage and storage of dangerous goods in ship</b> | Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1) |
| <b>Civil Aeronautics Law</b>   | Toxic and Infectious Substances (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)          |
| <b>Pollutant Release and Transfer Register Law</b>                         | Not applicable  |
| <b>Export Trade Control Order</b>  | 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 Organic 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 Z7252(2019). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**