

# SAFETY DATA SHEET

According to JIS Z 7253:2019  
**Revision date** 26-Feb-2024  
 Revision Number 2.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

|                     |                            |
|---------------------|----------------------------|
| <b>Product Name</b> | 3-Hydroxy-2-naphthoic Acid |
| <b>Product Code</b> | 084-05182                  |

**Supplier** FUJIFILM Wako Pure Chemical Corporation  
 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan  
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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**

|   |                        |
|---|------------------------|
| <b>Acute toxicity - Oral</b>                              | Category 4             |
| <b>Acute toxicity - Dermal</b>                            | Category 4             |
| <b>Skin corrosion/irritation</b>                          | Category 2             |
| <b>Serious eye damage/eye irritation</b>                  | Category 1             |
| <b>Skin sensitization</b>                                 | Category 1             |
| <b>Reproductive Toxicity</b>                              | Category 2             |
| <b>Specific target organ toxicity (single exposure)</b>   | Category 2, Category 3 |
| <b>Category 2</b> systemic toxicity                       |                        |
| <b>Category 3</b> Respiratory irritation                  |                        |
| <b>Specific target organ toxicity (repeated exposure)</b> | Category 2             |
| <b>Category 2</b> adrenal gland                           |                        |
| <b>Acute aquatic toxicity</b>                             | Category 3             |
| <b>Chronic aquatic toxicity</b>                           | Category 3             |

**Pictograms**



**Signal word**

**Danger**

**Hazard statements**

- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H361 - Suspected of damaging fertility or the unborn child
- H335 - May cause respiratory irritation
- H317 - May cause an allergic skin reaction
- H402 - Harmful to aquatic life
- H412 - Harmful to aquatic life with long lasting effects
- H371 - May cause damage to the following organs: systemic toxicity

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

#### 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
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- 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 or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- Take off contaminated clothing and wash before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth

#### 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 HOC10H6COOH

| Chemical Name              | Weight-% | Molecular weight | ENCS    | ISHL No. | CAS RN  |
|----------------------------|----------|------------------|---------|----------|---------|
| 3-Hydroxy-2-naphthoic acid | 97.0     | 188.18           | (4)-398 | 公表       | 92-70-6 |

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 (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

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.

#### Storage

##### Safe storage conditions

##### Storage conditions

Keep container protect from light and tightly closed in well ventilated cool place under 25°C

##### 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

**Respiratory protection** Dust mask ( JIS T 8151 )  
**Hand protection** 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** yellow - yellow brown  
**Appearance** powder

#### Odor

no data available

#### Melting point/freezing point

219 - 223 °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

Ethanol : soluble . acetone : sparingly soluble . water :  
 practically insoluble, or insoluble .

#### 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

**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 monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

| Chemical Name              | Oral LD50         | Dermal LD50                         | Inhalation LC50 |
|----------------------------|-------------------|-------------------------------------|-----------------|
| 3-Hydroxy-2-naphthoic acid | 832 mg/kg ( Rat ) | 1,000 - 2,000 mg/kg<br>(guinea pig) | N/A             |

| Chemical Name              | Acute toxicity -oral- source information      | Acute toxicity -dermal- source information    | Acute toxicity -inhalation gas-source information |
|----------------------------|---|---|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results.     |

| Chemical Name              | Acute toxicity -inhalation vapor- source information | Acute toxicity -inhalation dust-source information | Acute toxicity -inhalation mist-source information |
|----------------------------|--|--|--|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results.        | Based on the NITE GHS classification results.      | Based on the NITE GHS classification results.      |

### Skin irritation/corrosion

| Chemical Name              | Skin corrosion/irritation source information  |
|----------------------------|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. |

### Serious eye damage/ irritation

| Chemical Name              | Serious eye damage/irritation source information |
|----------------------------|--|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results.    |

### Respiratory or skin sensitization

| Chemical Name              | Respiratory or Skin sensitization source information |
|----------------------------|--|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results.        |

### Reproductive cell mutagenicity

| Chemical Name              | germ cell mutagenicity source information     |
|----------------------------|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. |

### Carcinogenicity

| Chemical Name              | Carcinogenicity source information            |
|----------------------------|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. |

### Reproductive toxicity

| Chemical Name              | Reproductive toxicity source information      |
|----------------------------|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. |

### STOT-single exposure

| Chemical Name              | STOT -single exposure- source information     |
|----------------------------|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. |

### STOT-repeated exposure

| Chemical Name              | STOT -repeated exposure- source information   |
|----------------------------|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. |

### Aspiration hazard

| Chemical Name              | Aspiration Hazard source information          |
|----------------------------|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification results. |

## Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical Name              | Algae/aquatic plants | Fish   | Crustacea                                 |
|----------------------------|----------------------|--|---|
| 3-Hydroxy-2-naphthoic acid | N/A                  | LC50: <i>Brachydanio rerio</i> 50 - 71 mg/L 96 h | EC50 : <i>Daphnia magna</i> 32.9 mg/L 48h |

### Other data

| Chemical Name              | Short-term (acute) hazardous to the aquatic environment source information | Long-term (chronic) hazardous to the aquatic environment source information |
|----------------------------|--|---|
| 3-Hydroxy-2-naphthoic acid | Based on the NITE GHS classification                                       | Based on the NITE GHS classification  |

|  |          |          |
|--|----------|----------|
|  | results. | results. |
|--|----------|----------|

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Persistence and degradability</b> | No information available |
| <b>Bioaccumulative potential</b>     | No information available |
| <b>Mobility in soil</b>              | No information available |
| <b>Hazard to the ozone layer</b>     | 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

|  |                          |
|--|--------------------------|
| <b>ADR/RID</b>   | Not regulated            |
| UN number  | -                        |
| Proper shipping name:  | -                        |
| UN classification  | -                        |
| Subsidiary hazard class  | -                        |
| Packing group  | -                        |
| Marine pollutant   | Not applicable           |
| <b>IMDG</b>  | Not regulated            |
| UN number  | -                        |
| Proper shipping name:  | -                        |
| UN classification  | -                        |
| Subsidiary hazard class  | -                        |
| Packing group  | -                        |
| Marine pollutant (Sea)   | Not applicable           |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available |
| <b>IATA</b>  | Not regulated            |
| UN number  | -                        |
| Proper shipping name:  | -                        |
| UN classification  | -                        |
| Subsidiary hazard class  | -                        |
| Packing group  | -                        |
| Environmentally Hazardous Substance                                      | Not applicable           |

### Section 15: REGULATORY INFORMATION

#### Japanese regulations

|  |   |
|--|---|
| <b>Fire Service Act</b>  | Not applicable  |
| <b>Poisonous and Deleterious Substances Control Law</b>                    | Not applicable  |
| <b>Industrial Safety and Health Act</b>                                    | Mutagens - Existing Chemicals   |
| <b>Industrial Safety and Health Act (2024-)</b>                            | 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) |
| <b>Regulations for the carriage and storage of dangerous goods in ship</b> | Not applicable  |
| <b>Civil Aeronautics Law</b>   | Not applicable  |
| <b>Pollutant Release and Transfer Register Law</b>                         | Not applicable  |

(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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.  
Chemical Dictionary, Kyouritsu Publishing Co., Ltd.  
etc

### Record of SDS revisions

The following contents were revised. 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**