



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 25-Mar-2024 Revision Number 1.02

Category 4

Category 1 Category 1

Category 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

| Product Name | Metamifop Standard |
|---|---|
| Product Code | 135-19151 |
| Supplier | 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 Recommended uses Restrictions on use | +81-6-6203-3741 / +81-3-3270-8571 For research use only 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 - Inhalation (Dusts/Mists) Skin sensitization Acute aquatic toxicity Chronic aquatic toxicity

Pictograms



Hazard statements

- H332 Harmful if inhaled
- H317 May cause an allergic skin reaction
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life

Precautionary statements-(Prevention)

- · Use only outdoors or in a well-ventilated area
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- · Avoid release to the environment

Precautionary statements-(Response)

- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- 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
- Collect spillage

Precautionary statements-(Storage)

Not applicable

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

C23H18CIFN2O4

| Chemical Name | Weight-% | Molecular weight | ENCS | ISHL No. | CAS RN |
|-------------------|---|------------------|------|------------|-------------|
| Metamifop | 98.0 | 440.85 | N/A | 8-(7)-1698 | 256412-89-2 |
| Note on ISHL No.: | * in the table means announced chemical substances. | | | | |

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

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.

Strong oxidizing agents

Storage

| Safe stora | ge co | onditi | ions | |
|------------|-------|--------|------|--------------|
| Storag | e cor | nditio | ns | Keep co |
| | | | | with an i |
| | | | | <u> </u> |

Safe packaging material Incompatible substances

ontainer protect from light tightly closed. Store in a cool (2-10 °C) place. Packed inert gas. Glass

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 (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 Appearance Odor Melting point/freezing point Boiling point, initial boiling point and boiling range Flammability **Evaporation rate:**

White - slightly brown crystalline powder - powder no data available no data available no data available no data available no data available

Flammability (solid, gas): Upper/lower flammability or explosive limits Upper: Lower: Flash point Auto-ignition temperature: **Decomposition temperature:** pН Viscosity (coefficient of viscosity) **Dynamic viscosity** Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density **Particle characteristics**

no data available ethanol, acetone : soluble, . water : slightly soluble . no data available 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

 None under normal processing
 Image: Conditions to avoid

 Extremes of temperature and direct sunlight
 Image: Condizing agents

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no data available

Section 12: ECOLOGICAL INFORMATION

| Ecotoxicity | no data available |
|-------------------------------|--------------------------|
| Other data | no data available |
| Persistence and degradability | No information available |

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 | UN3077 |
| Proper shipping name: | Environmentally hazardous substance, solid, n.o.s. (Metamifop Standard) |
| UN classfication | 9 |
| Subsidiary hazard class | |
| Packing group | |
| Marine pollutant | Yes |
| IMDG | |
| UN number | UN3077 |
| Proper shipping name: | Environmentally hazardous substance, solid, n.o.s. (Metamifop Standard) |
| UN classfication | 9 |
| 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 | |
| ΙΑΤΑ | |
| UN number | UN3077 |
| Proper shipping name: | Environmentally hazardous substance, solid, n.o.s. (Metamifop Standard) |
| UN classfication | 9 |
| Subsidiary hazard class | |
| Packing group | III |
| Environmentally Hazardous | Yes |
| 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 | t Not applicable |
| Industrial Safety and Health Act (| [2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) |
| <u>2024~)</u> | |
| Regulations for the carriage | Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding |
| and storage of dangerous | Transport by Ship and Storage, Attached Table 1) |
| goods in ship | |
| Civil Aeronautics Law | Misellaneous Dangerous Substances and Articles (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 |
| () | 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. 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