



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 11-Sep-2024 Revision Number 2.07

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

| Product Name  | Dimethyldioctadecylammonium Chloride  |  |
|---|---|--|
| Product Code  | 043-22091,045-22095   |  |
| Supplier  | FUJIFILM Wako Pure Chemical Corporation<br>1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan<br>Phone: +81-6-6203-3741<br>Fax: +81-6-6203-2029 |  |
| Emergency telephone number<br>Recommended uses<br>Restrictions on use | +81-6-6203-3741 / +81-3-3270-8571<br>For research use only<br>Seek expert judgment when using for purposes other than those recommended.            |  |

### Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Skin corrosion/irritation Serious eye damage/eye irritation Reproductive Toxicity Acute aquatic toxicity Chronic aquatic toxicity

**Pictograms** 



Hazard statements

- H315 Causes skin irritation
- H318 Causes serious eye damage
- H361 Suspected of damaging fertility or the unborn child
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life

#### 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
- 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

Category 2 Category 1 Category 2 Category 1 Category 1

- · If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- 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

Substance

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Formula

# (C18H37)2N(CH3)2CI

| Chemical Name                            | Weight-% | Molecular weight   | ENCS                | ISHL No.        | CAS RN   |
|--|----------|--------------------|---------------------|-----------------|----------|
| Dimethyldioctadecylam<br>monium Chloride | 90.0     | 586.50             | (1)-215,(2)-184     | (1)-215,(2)-184 | 107-64-2 |
| Note on ISHI No :                        | * in the | table means annour | ced chemical substa | nces            |          |

ote on ISHL No.: ans announced chemical substand

# 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.

#### Storage

| Safe storage conditions |  |
|-------------------------|--|
| Storage conditions      | Keep container protect from light, store   |
|                         | in well-ventilated place at room temperature (preferably cool). Keep container tightly |
|                         | closed.  |
| 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

Hand protection

Eye protection

Dust mask ( JIS T 8151 ) chemical protective gloves ( JIS T 8116 ) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

#### Skin and body protection 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

White - slight brown

Appearance powder or mass or flakes no data available Odor Melting point/freezing point 72 - 122 °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 no data available Upper: no data available Lower: Flash point no data available Auto-ignition temperature: no data available no data available **Decomposition temperature:** no data available рΗ Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available Solubilities water and Ethanol : soluble . n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density no data available no data available Vapour density **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 monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides

### Section 11: TOXICOLOGICAL INFORMATION

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

#### Acute toxicity

| Chemical Name               | Oral LD50          | Dermal LD50        | Inhalation LC50  |
|-----------------------------|--------------------|--------------------|------------------|
| Dimethyldioctadecylammonium | >2,000 mg/kg (Rat) | > 2000 mg/kg (Rat) | 45 mg/L (Rat) 4h |
| Chloride                    |                    |                    |                  |

| Chemical Name               | Acute toxicity -oral- source<br>information | Acute toxicity -dermal- source information | Acute toxicity -inhalation gas-<br>source information |
|-----------------------------|---|--|---|
| Dimotrylatootaaooylaminomam |   |  | Based on the NITE GHS<br>classification results.      |

| Chemical Name                  | Acute toxicity -inhalation | Acute toxicity -inhalation dust- | Acute toxicity -inhalation mist-              |
|--------------------------------|----------------------------|----------------------------------|---|
|                                | vapor- source information  | source information               | source information                            |
| Dimoniylalootaaooylaliintoinam |                            |                                  | Based on the NITE GHS classification results. |

#### Skin irritation/corrosion

| Chemical Name                        | Skin corrosion/irritation source information  |
|--------------------------------------|---|
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results. |
| Serious eve damage/irritation        |   |

Serious eye damage/ irritation

| Chemical Name                        | Serious eye damage/irritation source information     |  |
|--------------------------------------|--|--|
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results.        |  |
| Respiratory or skin sensitization    |  |  |
| Chemical Name                        | Respiratory or Skin sensitization source information |  |
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results.        |  |
| Reproductive cell mutagenicity       |  |  |
| Chemical Name                        | germ cell mutagencity source information             |  |
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results.        |  |
| Carcinogenicity                      |  |  |
| Chemical Name                        | Carcinogenicity source information                   |  |
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results.        |  |
| Reproductive toxicity                |  |  |
| Chemical Name                        | Reproductive toxicity source information             |  |
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results.        |  |
| STOT-single exposure                 |  |  |
| Chemical Name                        | STOT -single exposure- source information            |  |
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results.        |  |
| STOT-repeated exposure               |  |  |
| Chemical Name                        | STOT -repeated exposure- source information          |  |
|                                      |  |  |
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results.        |  |

| Chemical Name                        | Aspiration Hazard source information          |
|--------------------------------------|---|
| Dimethyldioctadecylammonium Chloride | Based on the NITE GHS classification results. |
|                                      |   |

# Section 12: ECOLOGICAL INFORMATION

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

### Ecotoxicity

| Chemical Name               | Algae/aquatic plants       | Fish                         | Crustacea                   |
|-----------------------------|----------------------------|------------------------------|-----------------------------|
| Dimethyldioctadecylammonium | EC50: =0.00046mg/L (72h,   | LC50: 0.1 - 1mg/L (96h,      | EC50: 0.39 - 0.52mg/L (48h, |
| Chloride                    | Selenastrum capricornutum) | Brachydanio rerio)           | Daphnia magna)              |
|                             | EC50: =0.026mg/L (96h,     | LC50: 0.17 - 17mg/L (96h,    |                             |
|                             | Selenastrum capricornutum) | Lepomis macrochirus)         |                             |
|                             |                            | LC50: =5.2mg/L (96h, Oryzias |                             |
|                             |                            | latipes)                     |                             |
|                             |                            | LC50: 0.29 - 0.558mg/L (96h, |                             |
|                             |                            | Pimephales promelas)         |                             |
|                             |                            | LC50: 4.86 - 9.88mg/L (96h,  |                             |
|                             |                            | Pimephales promelas)         |                             |

### Other data

| Chemical Name                        | Short-term (acute) hazardous to the Long-term (chronic) hazardous to |  |
|--------------------------------------|--|--|
|                                      | aquatic environment source information                               | aquatic environment source information           |
| Dimethyldioctadecylammonium Chloride |  | Based on the NITE GHS classification<br>results. |

#### Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer

No information available 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. (Dimethyldioctadecylammonium |
|                                | Chloride)   |
| 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. (Dimethyldioctadecylammonium |
| rioper sinpping name.          | Chloride)   |
| UN classfication               | 9   |
| Subsidiary hazard class        | 5   |
| Packing group                  |   |
| Marine pollutant (Sea)         | Yes   |
| Transport in bulk according to |   |
| Annex II of MARPOL 73/78 and   |   |
| the IBC Code                   |   |
| IATA                           |   |
| UN number                      | UN3077  |
|                                | Environmentally hazardous substance, solid, n.o.s. (Dimethyldioctadecylammonium |
| Proper shipping name:          | Chloride)   |
| UN classfication               | 9   |
| Subsidiary hazard class        |   |
| Packing group                  |   |
| 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 Not applicable |  |  |
| Industrial Safety and Health Act (              | [2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) |  |
| 2024~)  |  |  |
| Industrial Safety and Health Act (              | [2025.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)       |  |
| <u>2025~)</u>                                   | [2025.4.1~] Notifiable Substances (Law Art.57-2)   |  |
| Act on the Evaluation of                        | Priority Assessment Chemical Substances (Law Article 2, Para.5)                                |  |
| Chemical Substances and                         |  |  |
| Regulation of Their                             |  |  |
| Manufacture, etc                                |  |  |
| 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                  |  |  |
| Register Law                                    |  |  |
| (2023.4.1-)                                     |  |  |
| (2023.4.1-)<br>Class 1 - No.                    | 700  |  |
| Class I - NO.                                   | 100  |  |
|   |  |  |

#### Export Trade Control Order Not applicable

| Chemical Name  | Poisonous and Deleterious<br>Substances Control Law | Industrial Safety and Health Act<br>Substances<br>(Law Art.57-2) | Pollutant Release and Transfer<br>Register Law<br>(2023.4.1-) |
|--|---|--|---|
| Dimethyldioctadecylammonium Chloride 107-64-2 (90.0) | -   | -  | Applicable  |

# **Section 16: OTHER INFORMATION**

| Key literature references and sources for data etc. | NITE: National Institute of Technology and Evaluation (JAPAN)<br>https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput<br>IATA dangerous Goods Regulations<br>RTECS:Registry of Toxic Effects of Chemical Substances<br>Japan Industrial Safety and Health Association GHS Model SDS<br>Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.<br>Chemical Dictionary, Kyouritsu Publishing Co., Ltd.<br>etc |
|---|--|
| Record of SDS revisions<br>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