



## **SAFETY DATA SHEET**

Issue Date 09-Sep-2025 Revision Number 2.06

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Dimethyldioctadecylammonium Chloride

Other means of identification

**Product Code(s)** 043-22091,045-22095

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.

Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

FUJIFILM Wako Pure Chemical Corporation FUJIFILM Irvine Scientific

1-2, Doshomachi 3-Chome, E. Warner Avenue, Santa Ana, CA 92705-5505, U.S.A.: +1 949 261 7800

Chuo-ku Osaka 540-8605, Japan Fax: +1 949 261 6522

Tel: +81-6-6203-3741 Fax: +81-6-6201-5964

### 2. HAZARDS IDENTIFICATION

#### **GHS** classification

Classification of the substance or mixture

Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Reproductive ToxicityCategory 2Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1





### Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### **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 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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula (C18H37)2N(CH3)2CI

Chemical Name	Molecular weight	CAS RN	Weight-%
Dimethyldioctadecylammonium Chloride	586.50	107-64-2	90.0

Impurities and/or Additives: Not applicable

### 4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**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.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Water spray (fog). Carbon dioxide (CO2). Foam. Extinguishing powder. Sand.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical none. Impact

Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective

equipment and emergency

procedures

Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with strong oxidizing agents.

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed.

Packaging materials Glass.

Incompatible materials Strong oxidizing agents.

### 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 Not applicable

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color White - slight brown powder or mass or flakes

Odor no data available pH no data available

Melting point/freezing point72 - 122 °CBoiling point, initial boiling point and boiling rangeno data availableFlash pointno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
vapour pressure
vapour density
no data available

Solubilities water and Ethanol : soluble .

n-Octanol/water partition coefficient:(log Pow)

Auto-ignition temperature:

Decomposition temperature:

Viscosity (coefficient of viscosity)

Dynamic viscosity

Particle characteristics

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

### 10. STABILITY AND REACTIVITY

#### **Stability**

**Chemical stability Reactivity**May be altered by light. no data available

**Hazardous reactions** 

The substance decomposes on burning producing toxic or corrosive gases and fumes.

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

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Addit toxiony			
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 information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Dimethyldioctadecylammonium	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
Chloride	classification results.	classification results.	classification results.

Chemical Name			Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Dimethyldioctadecylammonium	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
Chloride	classification results.	classification results.	classification results.

### Skin irritation/corrosion

	Chemical Name	Skin corrosion/irritation source information
	Dimethyldioctadecylammonium Chloride	Based on the NITE GHS classification results.
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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	Based on the twife of the diagonification 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		

Based on the NITE GHS classification results.

STOT-repeated exposure

Dimethyldioctadecylammonium Chloride

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Chemical Name	STOT -repeated exposure- source information		
Dimethyldioctadecylammonium Chloride	Based on the NITE GHS classification results.		

**Aspiration hazard** 

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

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Dimethyldioctadecylammon ium Chloride 107-64-2	ErC50 : Pseudokirchneriella subcapitata = 0.05 mg/L 96 h EC50 : Selenastrum capricornutum = 0.00046 mg/L 72 h EC50 : Selenastrum capricornutum = 0.026 mg/L 96 h	LC50: Brachydanio rerio 0.1 - 1 mg/L 96 h LC50: Lepomis macrochirus 0.17 - 17 mg/L 96 h LC50: Oryzias latipes =5.2 mg/L 96 h LC50: Pimephales promelas 0.29 - 0.558 mg/L 96 h LC50: Pimephales promelas - 9.88 mg/L 96 h	N/A	EC50 : Daphnia magna 0.39 - 0.52 mg/L 48 h

#### Persistence and degradability

No information available

#### Bioaccumulative potential

No information available

**Mobility** 

no data available

Mobility in soilNo information availableOther DataNo information available

### 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Precautionary including method of** Disposal should be in accordance with applicable regional, national and local laws and **disposing contaminated packaging** regulations.

### 14. TRANSPORT INFORMATION

DOT

UN/ID No UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dimethyldioctadecylammonium

Chloride)

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UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant Yes

**IATA** 

UN/ID No UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dimethyldioctadecylammonium

Chloride)

UN classfication 9

Subsidiary hazard class

Packing group

Environmentally Hazardous Yes

**Substance** 

**IMDG** 

UN/ID No UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dimethyldioctadecylammonium

Chloride)

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UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant (Sea) Yes

### 15. REGULATORY INFORMATION

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Dimethyldioctadecylammonium Chloride - 107-64-2	107-64-2	90.0	N/A

SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any chemicals regulated by Proposition 65

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration NumberNot applicable

#### **16. OTHER INFORMATION**

Issue Date Revision Note 09-Sep-2025

No information available

Disclaimer

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, use, processing, storage, transportation, disposal and release 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.

**End of Safety Data Sheet**