



(Didecyldimethylammonium Chloride) DATE PREPARED: 1/27/2016

Section 1. Product and Company Identification

Product Name Didecyldimethylammonium Chloride

7173-51-5 **CAS Number**

Parchem - fine & specialty chemicals

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CHEMTEL

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 2), H411

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements **Hazard** statements

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P273 Avoid release to the environment.





(Didecyldimethylammonium Chloride)
DATE PREPARED: 1/27/2016

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 + P310 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.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name Didecyldimethylammonium Chloride

Formula $C_{22}H_{48}N \cdot CI$ CAS Number 7173-51-5

COMPONENT	CAS NUMBER	CONCENTRATION
Didecyldimethylammonium Chloride	7173-51-5	<= 100%

Section 4. First Aid Measures

Description of first-aid measures

General Advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eye Contact: Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Indication of any immediate medical attention and special treatment needed: No data available



(Didecyldimethylammonium Chloride)
DATE PREPARED: 1/27/2016

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. **Further information:** No data available

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. **Reference to other sections:** For disposal see section 13.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

Section 8. Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.



(Didecyldimethylammonium Chloride)
DATE PREPARED: 1/27/2016

Exposure controls

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and: approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Amorphous **Color:** Colorless - light yellow

Odor: Characteristic

Odor Threshold: No data available

pH: 6.8 - 6.9 at 25°C (77°F)

Melting point/freezing point: 94 - 100°C (201 - 212°F) - OECD Test Guideline 102 Initial boiling point and boiling range: > 180°C (> 356°F) - OECD Test Guideline 103 -

Decomposes below the boiling point.

Flash point (Closed Cup): 26.5°C (79.7°F) - ISO 2719

Evaporation rate: No data available

Flammability (solid, gas): The product is not flammable. - Flammability (solids)

Upper/lower flammability or explosive limits: No data available

Vapor pressure: < 0.0058 hPa (< 0.0044 mmHg) at 25 °C (77 °F) - OECD Test Guideline 104

Vapor density: No data available

Relative density: 0.87 q/cm³ at 20°C (68°F) - OECD Test Guideline 109

Water solubility: 0.39 g/l at 25°C (77°F)

Partition coefficient (n-Octanol/Water): log Pow: 2.58 at 20°C (68°F) - OECD Test Guideline

107

Auto-ignition temperature: 403°C (757°F) - Tested according to Directive 92/69/EEC.

Decomposition temperature: No data available





(Didecyldimethylammonium Chloride)
DATE PREPARED: 1/27/2016

Viscosity: No data available

Explosive properties: Not explosive **Oxidizing properties:** No data available

Other safety information

Surface tension: 25.82 mN/m at 20°C (68°F)

Section 10. Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products

Other decomposition products: No data available

In the event of fire: see section 5

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat: 84 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity).

Inhalation: No data available

LD50 Dermal - Rat (male and female): > 2,000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit

Result: Causes burns. (OECD Test Guideline 404)

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization

in vivo assay - Guinea pig

Result: Did not cause sensitization on laboratory animals.

(OECD Test Guideline 406)

Germ cell mutagenicity: No data available

Ames test

Salmonella typhimurium

Result: Not mutagenic in Ames Test.



(Didecyldimethylammonium Chloride)
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Carcinogenicity

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 45.5

mg/kg

RTECS: BP6560000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

Section 12. Ecological Information

Toxicity

Toxicity to fish

LC50 - Brachydanio rerio (zebrafish) - 0.49 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0.094 mg/l - 48 h

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 69% - Readily biodegradable. (OECD Test Guideline 301D)

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal. Very toxic to aquatic life.



(Didecyldimethylammonium Chloride)
DATE PREPARED: 1/27/2016

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US)

UN Number: 2923

Class: 8(6.1)
Packing group: ||

Proper shipping name: Corrosive Solids, Toxic, N.O.S. (Didecyldimethylammonium chloride)

Reportable Quantity (RQ): N/A Poison Inhalation Hazard: No

IMDG

UN Number: 2923

Class: 8(6.1)
Packing group: II
EMS-No: F-A, S-B

Proper shipping name: Corrosive Solid, Toxic, N.O.S. (Didecyldimethylammonium chloride)

Marine pollutant: Yes

IATA

UN number: 2923 Class: 8(6.1) Packing group: II

Proper shipping name: Corrosive Solid, Toxic, N.O.S. (Didecyldimethylammonium chloride)

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

Didecyldimethylammonium chloride (CAS-No. 7173-51-5)

New Jersey Right to Know Components

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DATE PREPARED: 1/27/2016

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

HMIS Rating Health: 3

Flammability: 0 Reactivity: 0

NFPA Rating Health: 3

Flammability: 3 Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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