



**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 according to local, provincial/federal regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name                                     | CAS-No     | Weight % |
|---|------------|----------|
| Glutaraldehyde                                    | 111-30-8   | 12.5     |
| C9-11 ethoxylated alcohol                         | 68439-46-3 | 5-10     |
| Alkyl (C12-16) dimethyl benzyl -ammonium chloride | 68424-85-1 | 2-3      |
| Octyldecyl dimethyl ammonium chloride             | 68424-95-3 | 2        |
| Tetrasodium EDTA                                  | 64-02-8    | 2-5      |
| d-limonene  | 5989-27-5  | 2-5      |
| Dioctyl dimethyl ammonium chloride                | 5538-94-3  | 1        |
| Didecyl dimethyl ammonium chloride                | 7173-51-5  | 1        |
|   |            |          |

### 4. FIRST AID MEASURES

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | 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 |
| <b>Skin contact</b> | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse  |
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.                                |
| <b>Ingestion</b>    | Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.      |

**Most important symptoms and effects, both acute and delayed**

Causes burns to eyes, skin and mucous membranes. Symptoms include tingling sensation and / or reddening of tissues. Inhalation of mist/vapors/spray may cause respiratory tract irritation leading to a temporary burning sensation of the nose and throat, coughing, and difficulty breathing. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes.

**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**

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Precautions for Safe Handling**

**Handling** Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong oxidizers.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

| Chemical Name              | ACGIH TLV      | OSHA PEL                      |
|----------------------------|----------------|-------------------------------|
| Glutaraldehyde<br>111-30-8 | TWA : 0.05 ppm | 0.2 ppm/0.8 mg/m <sup>3</sup> |

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Goggles or safety glasses.

**Skin and body protection** Wear rubber or neoprene gloves.

**Respiratory Protection** If exposure limits are exceeded or if ventilation is inadequate, NIOSH/MSHA approved respiratory protection for organic vapors or aldehydes should be worn.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE :**

Clear, yellow liquid

**ODOR**

Aldehyde

**ODOR THRESHOLD :**

Not applicable

**pH :**

4-5

**MELTING POINT / FREEZING POINT :**

Not available

**VAPOR PRESSURE, mm Hg AT 20°C :**

Not applicable

**VAPOR DENSITY (Air = 1) :**

Not applicable

**RELATIVE DENSITY AT 20°C:**

1.04

**SOLUBILITY IN WATER :**

Complete

**PARTITION COEFFICIENT, N-OCTANOL/WATER :**

Not available

**BOILING POINT/BOILING RANGE :**  
100 °C  
**FLASH POINT :**  
None  
**EVAPORATION RATE, water = 1 :**  
1  
**FLAMMABILITY (SOLID, GAS):**  
Not applicable

**AUTO-IGNITION TEMPERATURE :**  
None  
**DECOMPOSITION TEMPERATURE:**  
Not available  
**VISCOSITY:**  
<10 cps  
**FLAMMABLE LIMITS :**  
**UPPER:** Not applicable **LOWER :** Not applicable

**10. STABILITY AND REACTIVITY**

**Reactivity**  
Not reactive.

**Chemical Stability**  
Stable under normal conditions.

**Possibility of hazardous reactions**  
None.

**Conditions to Avoid**  
Store away from incompatible materials.

**Incompatible Materials**  
Strong oxidizers.

**Hazardous decomposition products**  
None known.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

| Chemical Name  | L50 Oral           | LD50 Dermal            | LC50 Inhalation          |
|--|--------------------|------------------------|--------------------------|
| Alkyl (C12-16) dimethyl benzyl ammonium chloride<br>68424-85-1 | 404 mg/kg (Rat)    | >2000 mg/kg ( Rabbit ) | Not applicable           |
| Octyldecyl dimethyl ammonium chloride<br>68424-95-3            | 50-500 mg/kg (Rat) | >2000 mg/kg ( Rabbit ) | Not applicable           |
| Dioctyl dimethyl ammonium chloride<br>5538-94-3                | 1025 mg/kg (Rat)   | >2000 mg/kg ( Rabbit ) | Not applicable           |
| Didecyl dimethyl ammonium chloride<br>7173-51-5                | 84 mg/kg (Rat)     | >2000 mg/kg ( Rabbit ) | Not applicable           |
| Glutaraldehyde<br>111-30-8                                     | 77 mg/kg (rat)     | >1000 mg/kg ( Rabbit ) | 0.28 -0.39 mg/L rat – 4h |
| Tetrasodium EDTA<br>64-02-8                                    | > 2000 mg/kg (Rat) | No data available      | Not applicable           |
| C9-11 ethoxylated alcohol<br>68439-46-3                        | > 2 g/kg ( Rat )   | No data available      | Not applicable           |
| d-limonene<br>5989-27-5  | 4400 mg/kg (rat)   | >5000 mg/kg (rabbit)   | Not available            |

**Information on likely sources of exposure**

**Serious eye damage/irritation** Corrosive to eyes and may cause grave lesions.  
**Skin corrosion/irritation** Corrosive to skin.  
**Ingestion** Ingestion may cause burns to the digestive and respiratory tract.  
**Inhalation** Spray mist may cause irritation or burns to respiratory tract.

**Delayed and immediate effects and also chronic effects from short and long-term exposure**

**Respiratory or skin sensitization** May cause respiratory and skin sensitization.  
**Germ cell mutagenicity** None known.  
**Carcinogenicity** No listed carcinogens.  
**Reproductive toxicity** None known.  
**STOT - single exposure** May cause respiratory irritation.  
**STOT-repeated exposure** None known.  
**Aspiration Hazard** None.

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms include tingling sensation and / or reddening of tissues, eventually leading to burn lesions. See Section 4.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No information available.

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available

**Other adverse effects**

None known

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****TDG classification**

Not regulated

**15. REGULATORY INFORMATION**All ingredients are listed on the DSL  
D.I.N. 02449234**16. OTHER INFORMATION****Preparation Date**

January 2, 2017

**Revision Date**

July 1, 2025

**Revision Note**

Updated emergency telephone number

**Disclaimer**

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**End of SDS**