

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 %
C9-11 ethoxylated alcohol	68439-46-3	5-10
Alkyl (C12-16) dimethyl benzyl -ammonium chloride	68424-85-1	5-8
Glutaraldehyde	111-30-8	5-8
Octyldecyl dimethyl ammonium chloride	68424-95-3	5-6
Tetrasodium EDTA	64-02-8	1-5
d-limonene	5989-27-5	1-5
Dioctyl dimethyl ammonium chloride	5538-94-3	1-3
Didecyl dimethyl ammonium chloride	7173-51-5	1-3

4. FIRST AID MEASURES

Eye contact	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
Skin contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Ingestion	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 111-30-8	TWA : 0.05 ppm	0.2 ppm/0.8 mg/m ³

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:

1.02

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 68424-85-1	404 mg/kg (Rat)	>2000 mg/kg (Rabbit)	Not applicable
Octyldecyl dimethyl ammonium chloride 68424-95-3	50-500 mg/kg (Rat)	>2000 mg/kg (Rabbit)	Not applicable
Dioctyl dimethyl ammonium chloride 5538-94-3	1025 mg/kg (Rat)	>2000 mg/kg (Rabbit)	Not applicable
Didecyl dimethyl ammonium chloride 7173-51-5	84 mg/kg (Rat)	>2000 mg/kg (Rabbit)	Not applicable
Glutaraldehyde 111-30-8	77 mg/kg (rat)	>1000 mg/kg (Rabbit)	0.28 -0.39 mg/L rat – 4h
Tetrasodium EDTA 64-02-8	> 2000 mg/kg (Rat)	No data available	Not applicable
C9-11 ethoxylated alcohol 68439-46-3	> 2 g/kg (Rat)	No data available	Not applicable
d-limonene 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 INFORMATIONAll ingredients are listed on the DSL
D.I.N. 02318393**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