

**SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Mixture**Product Name:** Clinicide**Product Code:** 1CLI001, 1CLI003**1.2. Intended Use of the Product**

Broad spectrum disinfectant

**1.3. Name, Address, and Telephone of the Responsible Party****Distributor**

Bimeda-MTC Animal Health Inc. / Bimeda-MTC Sante Animale

Inc.

Bimeda Inc.

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Oakbrook Terrace, IL 60181

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[www.bimeda.com](http://www.bimeda.com)**1.4. Emergency Telephone Number****Emergency Number** : 519-654-8139, 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (Maritime)**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****GHS-US/CA Classification**

Skin Corr. 1B H314

Eye Dam. 1 H318

STOT RE 2 H373

Aquatic Acute 1 H400

Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

**2.2. Label Elements****GHS-US/CA Labeling****Hazard Pictograms (GHS-US/CA)****Signal Word (GHS-US/CA)**

: Danger

**Hazard Statements (GHS-US/CA)**

: H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H373 - May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).

H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary Statements (GHS-US/CA)**

: P260 - Do not breathe mist, spray, vapors.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

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

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

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P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 - Get medical advice/attention if you feel unwell.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Didecyldimethylammonium chloride	Ammonium chloride, N,N-didecyl-N,N-dimethyl- / Ammonium, didecyldimethyl-, chloride / 1-Decanamini-um, N-decyl-N,N-dimethyl-, chloride / 1-Decanamini-um, N-decyl-N,N-dimethyl-, chloride (1:1) / DDAC / DIDECYLDIMONIUM CHLORIDE / Didecyldimethylamini-um chloride / Didecyldimoni-um chloride	(CAS-No.) 7173-51-5	4.61	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
1-Dodecanamine, N,N-dimethyl-, N-oxide	Lauryldimethylamine oxide / N,N-Dimethyldodecylamine oxide / Dodecylamine, N,N-dimethyl-, N-oxide / Dodecyldimethylamine oxide / 1-Dodecanamine, N,N-dimethyl oxide / 1-Dodecylamine, N,N-dimethyl-, N-oxide / N,N-Dimethyldodecylamine N-oxide / N,N-Dimethylauramine N-oxide / LAURAMINE OXIDE / Lauramine oxide / Ammonyx LO	(CAS-No.) 1643-20-5	4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Quaternary ammonium compounds, alkylbenzyl-dimethyl, chlorides	Ammonium, alkyl-dimethylbenzyl-, chloride / Benzalkonium chloride / BENZALKONIUM CHLORIDE / Alkyl-dimethylbenzylammonium chloride / N-Alkyl-dimethylbenzylammonium chloride / Alkylbenzyl-dimethylammonium chloride / Benzylalkonium chloride / Alkyl benzalkonium chloride	(CAS-No.) 8001-54-5	3.07	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Glycine, N,N'-1,2-ethanediybis[N-	Acetic acid, (ethylenedinitrilo)tetra-,	(CAS-No.) 6381-92-6	2	Acute Tox. 4 (Oral), H302

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(carboxymethyl)-, disodium salt, dihydrate	disodium salt, dihydrate / Glycine, N,N'-1,2-ethanediylbis(N-(carboxymethyl)-, disodium salt, dihydrate (9Cl) / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate / Disodium dihydrate EDTA / Ethylenediaminetetraacetic acid, sodium salt, dihydrate / Ethylenediaminetetraacetic acid (EDTA), disodium salt, dihydrate / Disodium ethylenediamine tetraacetate / Ethylenediaminetetraacetic acid sodium salt dihydrate / Disodium edetate hydrate / Ethylenediaminetetraacetic acid (EDTA), disodium salt, dihydrate / Ethylenediaminetetraacetic acid sodium salt dihydrate / Ethylenediaminetetraacetic acid, disodium, dihydrate / Ethylenediaminetetraacetic acid disodium salt / Disodium ethylenediaminetetraacetate / Sodium edetate hydrate / Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt, hydrate (1:2:2)			Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 Comb. Dust
Sodium hydroxide	Caustic soda / Sodium hydroxide (Na(OH)) / SODIUM HYDROXIDE / LYE	(CAS-No.) 1310-73-2	0.226	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Benzyl acetate	Acetate, benzyl / Acetic acid, benzyl ester / Acetic acid, phenylmethyl ester / Benzyl ethanoate / Phenylmethyl acetate / BENZYL ACETATE	(CAS-No.) 140-11-4	0.072576	Flam. Liq. 4, H227 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Benzoic acid, 2-amino-, methyl ester	Methyl anthranilate / Anthranilic acid, methyl ester / 2-Carbomethoxyaniline / o-Carbomethoxyaniline / 2-(Methoxycarbonyl)aniline / Methyl 2-aminobenzoate / METHYL ANTHRANILATE / 2-Aminobenzoic acid methyl ester	(CAS-No.) 134-20-3	0.015516	Eye Irrit. 2A, H319
7-Hydroxycitronellal	Octanal, 7-hydroxy-3,7-dimethyl- / Citronellal hydrate / Citronellal, hydroxy- / 3,7-Dimethyl-7-hydroxyoctanal / 7-Hydroxy-3,7-dimethyloctan-1-al / Hydroxycitronellal / Laurine / Lilyl aldehyde / 1-Octanal, 3,7-dimethyl-7-hydroxy- / HYDROXYCITRONELLAL / 7-Hydroxy-3,7-dimethyloctanal	(CAS-No.) 107-75-5	0.014148	Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 3, H402

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Full text of H-phrases: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Skin Contact:** Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

**Eye Contact:** Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** May cause damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage.

**Inhalation:** May be corrosive to the respiratory tract.

**Skin Contact:** Causes severe irritation which will progress to chemical burns.

**Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Hydrogen cyanide. Nitrogen oxides.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

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### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May release corrosive vapors.

**Precautions for Safe Handling:** Do not breathe mist/vapors/spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container. Store locked up/in a secure area.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Metals.

### 7.3. Specific End Use(s)

Broad spectrum disinfectant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Alberta	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
British Columbia	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Manitoba	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
New Brunswick	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Nova Scotia	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Nunavut	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Northwest Territories	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Ontario	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Prince Edward Island	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Québec	PLAFOND (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Saskatchewan	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Yukon	OEL Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Benzyl acetate (140-11-4)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Alberta	OEL TWA (mg/m <sup>3</sup> )	61 mg/m <sup>3</sup>

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Alberta	OEL TWA (ppm)	10 ppm
British Columbia	OEL TWA (ppm)	10 ppm
Manitoba	OEL TWA (ppm)	10 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	61 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	10 ppm
Newfoundland & Labrador	OEL TWA (ppm)	10 ppm
Nova Scotia	OEL TWA (ppm)	10 ppm
Nunavut	OEL STEL (ppm)	20 ppm
Nunavut	OEL TWA (ppm)	10 ppm
Northwest Territories	OEL STEL (ppm)	20 ppm
Northwest Territories	OEL TWA (ppm)	10 ppm
Ontario	OEL TWA (ppm)	10 ppm
Prince Edward Island	OEL TWA (ppm)	10 ppm
Saskatchewan	OEL STEL (ppm)	20 ppm
Saskatchewan	OEL TWA (ppm)	10 ppm
<b>Biphenyl (92-52-4)</b>		
USA ACGIH	ACGIH TWA (ppm)	0.2 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	0.2 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	0.2 ppm
USA IDLH	US IDLH (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m <sup>3</sup> )	1.3 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	0.2 ppm
British Columbia	OEL TWA (ppm)	0.2 ppm
Manitoba	OEL TWA (ppm)	0.2 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	1.3 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	0.2 ppm
Newfoundland & Labrador	OEL TWA (ppm)	0.2 ppm
Nova Scotia	OEL TWA (ppm)	0.2 ppm
Nunavut	OEL STEL (ppm)	0.6 ppm
Nunavut	OEL TWA (ppm)	0.2 ppm
Northwest Territories	OEL STEL (ppm)	0.6 ppm
Northwest Territories	OEL TWA (ppm)	0.2 ppm
Ontario	OEL TWA (ppm)	0.2 ppm
Prince Edward Island	OEL TWA (ppm)	0.2 ppm
Québec	VEMP (mg/m <sup>3</sup> )	1.3 mg/m <sup>3</sup>
Québec	VEMP (ppm)	0.2 ppm
Saskatchewan	OEL STEL (ppm)	0.6 ppm
Saskatchewan	OEL TWA (ppm)	0.2 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> 3 mg/m <sup>3</sup> (regulated under Diphenyl)
Yukon	OEL STEL (ppm)	0.2 ppm 0.6 ppm (regulated under Diphenyl)
Yukon	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	0.2 ppm

## 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Corrosion-proof clothing.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles and face shield.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear, red, non-viscous solution
Odor	: Floral odor
Odor Threshold	: Not available
pH	: 7.6 - 8.0
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Density	: 1 g/ml
Specific Gravity	: 1 (H <sub>2</sub> O = 1)
Solubility	: Not available
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Metals.
- 10.6. Hazardous Decomposition Products:** Nitrogen oxides. Carbon oxides (CO, CO<sub>2</sub>). Hydrogen.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

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**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**pH:** 7.6 - 8.0

**Eye Damage/Irritation:** Causes serious eye damage.

**pH:** 7.6 - 8.0

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May be corrosive to the respiratory tract.

**Symptoms/Injuries After Skin Contact:** Causes severe irritation which will progress to chemical burns.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.

### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Didecyldimethylammonium chloride (7173-51-5)</b>	
LD50 Oral Rat	329 mg/kg
LD50 Dermal Rat	2001 mg/kg
<b>1-Dodecanamine, N,N-dimethyl-, N-oxide (1643-20-5)</b>	
ATE US/CA (oral)	500.00 mg/kg body weight
<b>Quaternary ammonium compounds, alkylbenzyl dimethyl, chlorides (8001-54-5)</b>	
LD50 Oral Rat	304.5 mg/kg
LD50 Dermal Rat	1420 mg/kg
ATE US/CA (dust, mist)	1.50 mg/l/4h
<b>Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)</b>	
LD50 Oral Rat	2000 mg/kg
ATE US/CA (dust, mist)	1.50 mg/l/4h
<b>Sodium hydroxide (1310-73-2)</b>	
LD50 Oral Rat	325 mg/kg
<b>Benzyl acetate (140-11-4)</b>	
LD50 Oral Rat	2490 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
<b>Benzoic acid, 2-amino-, methyl ester (134-20-3)</b>	
LD50 Oral Rat	2910 mg/kg
LD50 Dermal Rabbit	5000 mg/kg
<b>7-Hydroxycitronellal (107-75-5)</b>	
LD50 Oral Rat	> 5 g/kg

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

<b>Didecyldimethylammonium chloride (7173-51-5)</b>	
EC50 Daphnia 1	0.034 mg/l



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<b>1-Dodecanamine, N,N-dimethyl-, N-oxide (1643-20-5)</b>	
ErC50 (algae)	0.11 mg/l (72 hour)
NOEC Chronic Algae	0.004 mg/l
<b>Quaternary ammonium compounds, alkylbenzyltrimethyl, chlorides (8001-54-5)</b>	
LC50 Fish 1	0.223 - 0.46 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	0.018 mg/l
LC50 Fish 2	0.823 - 1.61 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
<b>Sodium hydroxide (1310-73-2)</b>	
LC50 Fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	40 mg/l
<b>Benzyl acetate (140-11-4)</b>	
LC50 Fish 1	4 mg/l
NOEC Chronic Fish	0.92 mg/l

### 12.2. Persistence and Degradability

Clinicide	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

Clinicide	
Bioaccumulative Potential	Not established.
Benzyl acetate (140-11-4)	
Log Pow	1.96

12.4. Mobility in Soil Not available

### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : DISINFECTANTS, LIQUID, CORROSIVE N.O.S.(Didecyltrimethylammonium chloride)  
**Hazard Class** : 8  
**Identification Number** : UN1903  
**Label Codes** : 8  
**Packing Group** : II  
**Marine Pollutant** : Marine pollutant  
**ERG Number** : 153



### 14.2. In Accordance with IMDG

**Proper Shipping Name** : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyltrimethylammonium chloride)  
**Hazard Class** : 8  
**Identification Number** : UN1903  
**Label Codes** : 8  
**Packing Group** : II  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-B



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**Marine pollutant** : Marine pollutant

### 14.3. In Accordance with IATA

**Proper Shipping Name** : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride)

**Hazard Class** : 8

**Identification Number** : UN1903

**Label Codes** : 8

**Packing Group** : II

**ERG Code (IATA)** : 8L



### 14.4. In Accordance with TDG

**Proper Shipping Name** : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.(Didecyldimethylammonium chloride)

**Hazard Class** : 8

**Identification Number** : UN1903

**Label Codes** : 8

**Packing Group** : II

**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Clinicide</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation
<b>Didecyldimethylammonium chloride (7173-51-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>1-Dodecanamine, N,N-dimethyl-, N-oxide (1643-20-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium hydroxide (1310-73-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>CERCLA RQ</b>	1000 lb
<b>Benzyl acetate (140-11-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Benzoic acid, 2-amino-, methyl ester (134-20-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>7-Hydroxycitronellal (107-75-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2. US State Regulations

<b>Sodium hydroxide (1310-73-2)</b>
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
<b>Benzyl acetate (140-11-4)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List

### 15.3. Canadian Regulations

<b>Didecyldimethylammonium chloride (7173-51-5)</b>
Listed on the Canadian DSL (Domestic Substances List)

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<b>1-Dodecanamine, N,N-dimethyl-, N-oxide (1643-20-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Quaternary ammonium compounds, alkylbenzyl dimethyl, chlorides (8001-54-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Sodium hydroxide (1310-73-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Benzyl acetate (140-11-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Benzoic acid, 2-amino-, methyl ester (134-20-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>7-Hydroxycitronellal (107-75-5)</b>
Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 05/28/2019

**Revision**

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

### GHS Full Text Phrases:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed

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H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS 2015 (Can, US)