



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

<u>Name</u>	<u>CAS number</u>	<u>% (w/w)</u>
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	30 - 60
ethanol	64-17-5	5 - 10

Occupational exposure limits, if available, are listed in Section 8.

### 4. FIRST AID MEASURES

#### Description of required first aid measures

**Eye contact** In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

**Skin contact** Rinse with water. Remove contaminated clothing and wash it before reuse. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

**Ingestion** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Get medical attention if symptoms occur. Get medical attention if you feel unwell.

**Inhalation** Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

#### Most important symptoms/effects, acute and delayed

**Eye contact** Adverse symptoms may include the following:  
pain  
watering  
redness

**Skin contact** Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur

**Ingestion** Adverse symptoms may include the following:  
stomach pains  
nausea or vomiting  
headache  
diarrhea

**Inhalation** Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

**Suitable extinguishing media** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special fire-fighting procedures** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Initiate spill response procedures if required.
<b>Personal protection</b>	Put on appropriate personal protective equipment (see Section 8).
<b>Cleaning method</b>	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use a water rinse for final clean-up.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.
<b>Storage and Incompatibility</b>	Store in accordance with local regulations. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children. Store away from incompatible materials (see Section 10).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

Ingredient name	Exposure limits
Ethyl alcohol	<b>CA Alberta Provincial (Canada, 4/2009).</b> 8 hrs OEL: 1000 ppm 8 hours. 8 hrs OEL: 1880 mg/m <sup>3</sup> 8 hours. <b>CA Quebec Provincial (Canada, 1/2014).</b> TWAEV: 1000 ppm 8 hours. TWAEV: 1880 mg/m <sup>3</sup> 8 hours. <b>CA British Columbia Provincial (Canada, 6/2017).</b> STEL: 1000 ppm 15 minutes. <b>CA Ontario Provincial (Canada, 7/2015).</b> STEL: 1000 ppm 15 minutes. <b>CA Saskatchewan Provincial (Canada, 7/2013).</b> STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.

**Appropriate engineering controls** If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

<b>Eye/face protection</b>	Continued or severe exposures might require to wear a face shield or chemical splash goggles. It is minimally suggested to wear safety glasses while using or handling this product.
<b>Hands and Body protection</b>	It is suggested to wear chemical-resistant gloves while using or handling this product. No special protective clothing is required.
<b>Respiratory protection</b>	No specific protective equipment required under normal use conditions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid. [Limpid liquid]	<b>pH</b>	8	<b>Flash point</b>	[Product does not sustain combustion.]
<b>Color</b>	Blue. [Dark]	<b>Relative density</b>	0.97	<b>Melting point</b>	Not available.
<b>Odor</b>	Characteristic.	<b>Viscosity</b>	Not available.	<b>Boiling point</b>	Not available.
<b>Odor threshold</b>	Not available.	<b>Vapor pressure</b>	Not available.	<b>Fire point</b>	: Not available.
<b>Solubility in water</b>	: Not available.	<b>Vapor density</b>	: Not available.	<b>Evaporation rate</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.	<b>Auto-ignition temperature</b>	: Not available.		
<b>Partition coefficient: n-octanol/ water</b>	: Not available.	<b>Flammability (solid, gas)</b>	: Not available.		
<b>Lower and upper explosive (flammable) limits</b>	: Not available.				

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	The product is stable.
<b>Incompatible materials</b>	No specific data.
<b>Conditions to avoid</b>	No specific data.
<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

<b>Route of exposure</b>	Not available.	
	<u>Potential acute health effects</u>	<u>Symptoms</u>
<b>Eye contact</b>	May cause eye burn	Adverse symptoms may include the following: pain watering redness
<b>Skin contact</b>	May cause skin burns	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	Harmful if swallowed. May cause burns to mouth, throat and stomach.	Adverse symptoms may include the following: stomach pains nausea or vomiting headache diarrhea
<b>Inhalation</b>	Inhalation of vapors or mist may cause respiratory tract irritation.	Adverse symptoms may include the following: respiratory tract irritation coughing

### Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides Ethyl alcohol	LD50 Oral	Rat	426 mg/kg	-
	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>20000 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-

### Information on toxicological effects

<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Sensitization</b>	Not available.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity data

Product/ingredient name	Result	Species	Exposure

quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides	Acute EC50 37 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethyl alcohol	Chronic NOEC 4.15 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 32.2 ppb	Fish - Pimephales promelas	34 days
	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks	

Persistence and degradability : Unknown Bioaccumulative potential : Unknown Mobility in soil : Unknown Other adverse effects : Unknown

### 13. DISPOSAL CONSIDERATIONS

Disposal methods Dispose content and container in accordance with local, regional and national regulation in force.

### 14. TRANSPORT INFORMATION

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	TDG Placard
TDG Classification	Not regulated.	-	-	-	-
<a href="#">Additional information</a> See shipping documents for specific information on DOT, IMDG or IATA					

### 15. REGULATORY INFORMATION

#### Canadian lists

Canadian NPRI The following components are listed: Ammonia (total)

CEPA Toxic substances None of the components are listed.

Canada inventory All components are listed or exempted.

#### International lists

United States All components are listed or exempted.

### 16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

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Prepared by : Regulatory Affairs Department

Sani-Marc Inc.  
42 rue de l'Artisan  
Victoriaville, Qc  
G6P 7E3  
1-819-758-1541

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