

	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Quaternary Sanitizer
Product code	: C-Q01
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Jse of the substance/mixture	: Quat Disinfectant/Sanitizer
1.3. Details of the supplier of the	
HD Chem	Salety uata Sheet
707 W. 16th St.	
Long Beach, CA 90813	
T (888) 443-2436 - F (562) 495-7716	
1.4. Emergency telephone numb	
Emergency number	: (888) 443-2436
SECTION 2: Hazards identifica	ation
2.1. Classification of the substar	ice or mixture
Classification (GHS-US)	
Skin Corr. 1B H314	
Eye Dam. 1 H318 STOT SE 3 H335	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
	GHS05 GHS07
	: Danger
Signal word	
Hazard statements	: Causes severe skin burns and eye damage.
-	C C
-	: Causes severe skin burns and eye damage.
-	: Causes severe skin burns and eye damage. Causes serious eye damage.
Hazard statements	: Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.
Hazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> </ul>
Hazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> </ul>
Hazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> </ul>
Hazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> </ul>
Hazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with</li> </ul>
Hazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> </ul>
lazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present</li> </ul>
lazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>
lazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor/physician.</li> </ul>
lazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor/physician.</li> <li>Call a POISON CENTER/doctor/physician if you feel unwell.</li> </ul>
lazard statements	<ul> <li>Causes severe skin burns and eye damage.</li> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Do not breathe mist, vapors.</li> <li>Wash hands and forearms thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>If swallowed: rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Immediately call a POISON CENTER or doctor/physician.</li> <li>Call a POISON CENTER/doctor/physician if you feel unwell.</li> <li>Wash contaminated clothing before reuse.</li> </ul>

No additional information available 2.4. Unknown acute toxicity (GHS-US) No data available

Product Code: C-Q01

### **Quaternary Sanitizer**

Safety Data Sheet

### SECTION 3: Composition/information on ingredients 3.1. Substance

Not applicable

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
alkyl dimethyl benzyl ammonium chloride (C12-16)	(CAS No) 68424-85-1	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
decyldimethyloctylammonium chloride	(CAS No) 32426-11-2	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
dioctyldimethylammonium chloride	(CAS No) 5538-94-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400
didecyldimethylammonium chloride	(CAS No) 7173-51-5	1 - 5	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318
ethanol	(CAS No) 64-17-5	1 - 5	Flam. Lig. 2, H225

(NOTE: If component displays the \* (asterisk) symbol, the following statement applies.)

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First aid measures		
4.1. Description of first aid measures		
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).
First-aid measures after inhalation	:	Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after 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.
First-aid measures after ingestion	:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and effect	ts,	both acute and delayed
Symptoms/injuries	:	Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	:	May cause respiratory irritation.
Symptoms/injuries after skin contact	:	Causes burns/corrosion of the skin.
Symptoms/injuries after eye contact	:	Causes serious eye damage.
Symptoms/injuries after ingestion	:	Burns to the gastric/intestinal mucosa. Nausea. Abdominal pain. Gastrointestinal complaints.
4.3. Indication of any immediate medica	at	tention and special treatment needed
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	:	Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
5.2. Special hazards arising from the su	ost	ance or mixture
Reactivity	:	Reacts with (strong) oxidizers. Reacts with (strong) reducers.
5.3. Advice for firefighters		
Firefighting instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.

 Other information
 : No additional information available.

6.1. Personal precautions, pr	otective equipment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk.
6.1.1. For non-emergency pers	onnel
Protective equipment	: Protective goggles.
	Protective gloves.
	Protective clothing.
	Respiratory protection.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responde	rs
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautio	IS
Prevent entry to sewers and public w	aters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for	containment and cleaning up
For containment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.
6.4. Reference to other section	ns
See Heading 8. Exposure controls a	d personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors. Ensure good ventilatior of the work station. Observe normal hygiene standards. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Provide local exhaust or general room ventilation. Comply with applicable regulations.
Incompatible products	: Oxidizing agent. Reducing agents.
Storage area	: Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTIC	DN 8: Exposure controls/personal protection
8.1.	Control parameters

ethanol (64-17-5)		
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of insufficient ventilation, wear suitable respiratory equipment.
Other information	: When using, do not eat, drink or smoke.
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Physical state         : Liquid           Color         : Clear to light straw           Odor         : Mild           Odor         : Mild           Odor threshold         : No data available           pH         ::::::::::::::::::::::::::::::::::::	9.1. Information on basic physical and	chemical properties
Color:Clear to light strawCodor:MidCodor threshold:No data availableDM:No data availablePreving point:No data availableSoling point:No data availableBash point:No data availablePathating to threshold:No data availableSolosi pressure:No data availableVapor pressure:No data availableVapor density:No data availableVapor density:No data availableVapor density:No data availableVapor density:No data availableVator density:No data available <t< th=""><th></th><th></th></t<>		
Add threshold       i       No data available         H       i       6 - 9         Melting point       i       No data available         Freezing point       i       No data available         Bash point       i       No data available         Bash point       i       No data available         Plative exoporation rate (butyl acetate=)       i       No data available         Plative exoporation rate (butyl acetate=)       i       No data available         Specific Gravity (Ø) 77% F       i       No data available         Apor pressure       i       No data available         Auto englition temperature       i       No data available         Auto-ignition temperature       i       No data available         Viccontent       i       No data available         Viccontent       i       No data available         Viccontent       i		: Clear to light straw
H       :       6 - 9         Aetting point       :       No data available         irrecing point       :       No data available         Biding point       :       No data available         ilash point       :       > 200 F         Pelative evaporation rate (butyl acetate=1)       :       No data available         ilammability (solid, gas)       :       No data available         ilammability (solid, gas)       :       No data available         /apor pressure       :       No data available         /apor density       :       No data available         /aportion Coefficient n-Octanol-Water       :       No data available         /aportion temperature       :       No data available         /apocomposition temperature       :	Ddor	: Mild
Addata available         reezing point       No data available         Soling point       No data available         alsah point       > 200 °F         Ielative evaporation rate (butyl acetate=1)       No data available         "ammability (solid, gas)       No data available         /apor pressure       No data available         /apor density       No data available         /accomposition temperature       No data available         /accompt       No data available	Ddor threshold	: No data available
Prevery of point       I       No data available         Jolling point       I       No data available         Jash point       I       No data available         Jammability (solid, gas)       I       No data available         Japor pressure       I       No data available         Japor density       I       No data available         Japor To-Ctanol-Water       I       No data available         Japor To-Ctanol-Water       I       No data available         Japor To-Ctanol-Water       I       No data available         Japor To-Ctanol To-Ctanol-Water       I       No data available         Japor To-C	рН	: 6-9
boling point i k No data available lash point i No data available lamability (solid, gas) i No data available lamability (solid, gas) i No data available lapop pressure i No data available lapop density i No data availabl	Aelting point	: No data available
Flash point       :       > 200 °F         Relative evaporation rate (butyl acetate=1)       :       No data available         Planmability (solid, gas)       :       No data available         Explosive limits       :       No data available         Zapor pressure       :       No data available         Zapor density       :       No data available         Zapor density       :       No data available         Specific Gravity @ 77° F       :       0.985 - 1.005         Solubility       :       Solube in water.         Parition Coefficient n-Octanol-Water       :       No data available         Auto-ignition temperature       :       No data available         Occomposition temperature       :       No data available	Freezing point	: No data available
Relative evaporation rate (butyl acetate=1)       i       No data available         Planmability (solid, gas)       i       No data available         Staplosive limits       i       No data available         Apor pressure       i       No data available         /apor density       i       No data available         /apor density       i       No data available         Specific Gravity @ 77° F       i       0.985 - 1.005         Solublity       i       Soluble in water.         Partition Coefficient n-Octanol-Water       i       No data available         Auto-ignition temperature       i       No data available         Decomposition temperature       i       No data available         Difficient n-Octanol-Water       i       15 g/l         Difficient n-formation       i       <15 g/l	Boiling point	: No data available
Planmability (solid, gas)       i       No data available         Explosive limits       i       No data available         /apor pressure       i       No data available         /apor density       i       No data available         /apor density       i       No data available         /apor density       i       No data available         Specific Gravity @ 77° F       i       0.985 - 1.005         Solubility       i       Solubie in water.         Partition Coefficient n-Octanol-Water       i       No data available         Nuo-ignition temperature       i       No data available         Auto-ignition temperature       i       No data available         Viccosity       i       No data available         VicContent <t< td=""><td>Flash point</td><td>: &gt; 200 °F</td></t<>	Flash point	: > 200 °F
Explosive limits       i       No data available         /apor pressure       i       No data available         /apor density       i       No data available         /apor density       i       No data available         Specific Gravity @ 77° F       i       0.985 - 1.005         Solubility       i       Soluble in water.         Parition Coefficient n-Octanol-Water       i       No data available         Auto-ignition temperature       i       No data available         Decomposition temperature       i       No data available         /iscosity       i       No data available         //scosity       available	Relative evaporation rate (butyl acetate=1)	: No data available
Vapor pressure       : No data available         Vapor density       : No data available         Specific Gravity @ 77° F       : 0.985 - 1.005         Solubility       : Soluble in water.         Partition Coefficient n-Octanol-Water       : No data available         Auto-ignition temperature       : No data available         Decomposition temperature       : No data available         Viscosity       : No data available         Auto-ignition temperature       : No data available         Other information       : No data available         VOC content       : < 15 g/l	-lammability (solid, gas)	: No data available
Vapor density       :       No data available         Specific Gravity @ 77° F       :       0.985 - 1.005         Solubility       :       Soluble in water.         Parition Coefficient n-Octanol-Water       :       No data available         Auto-ignition temperature       :       No data available         Decomposition temperature       :       No data available         Viscosity       :       No data available         Viscosity       :       No data available         Viscosity       :       No data available         Voctoret       :       No data available         VOC content       :       <15 g/l	Explosive limits	: No data available
Specific Gravity @ 77° F : 0.985 - 1.005   Solubility : Soluble in water.   Partition Coefficient n-Octanol-Water : No data available   Auto-ignition temperature : No data available   Decomposition temperatures : No data available   Decomposition temperature : < 15 g/l	Vapor pressure	: No data available
Solubility       Solubile in water.         Partition Coefficient n-Octanol-Water       No data available         Auto-ignition temperature       No data available         Decomposition temperature       No data available         Decomposition temperature       No data available         Viscosity       No data available         Viscosity       No data available         Other information       No data available         VOC content       I < 15 g/l	Vapor density	: No data available
Partition Coefficient n-Octanol-Water       : No data available         Auto-ignition temperature       : No data available         Decomposition temperature       : No data available         Decomposition temperature       : No data available         Viscosity       : Statisty         Viscosity       : Statisty         Statisty       : Statisty         Vistosty       : Statisty         Vistosty       : Statisty         Vistosty       : Statisty         Vistosty <t< td=""><td>Specific Gravity @ 77º F</td><td>: 0.985 - 1.005</td></t<>	Specific Gravity @ 77º F	: 0.985 - 1.005
Auto-ignition temperature       i       No data available         Decomposition temperature       i       No data available         Viscosity       i       <15 g/l	Solubility	: Soluble in water.
Decomposition temperature i No data available /iscosity is No data avail	Partition Coefficient n-Octanol-Water	: No data available
Viscosity       : No data available         0.2.       Other information         VOC content       : < 15 g/l	Auto-ignition temperature	: No data available
A.2. Other information         VOC content       : < 15 g/l	Decomposition temperature	: No data available
/OC content       : < 15 g/l	/iscosity	: No data available
SECTION 10: Stability and reactivity  IO.1. Reactivity Reacts with (strong) oxidizers. Reacts with (strong) reducers. IO.2. Chemical stability Stable under recommended conditions. IO.3. Possibility of hazardous reactions Not established. IO.4. Conditions to avoid Extremely high or low temperatures. IO.5. Incompatible materials Dividizers. Reducing agents.	3.2. Other information	
10.1.       Reactivity         Reacts with (strong) oxidizers. Reacts with (strong) reducers.         10.2.       Chemical stability         Stable under recommended conditions.         10.3.       Possibility of hazardous reactions         Not established.         10.4.       Conditions to avoid         Extremely high or low temperatures.         10.5.       Incompatible materials         Dxidizers. Reducing agents.	/OC content	: < 15 g/l
Reacts with (strong) oxidizers. Reacts with (strong) reducers.         10.2.       Chemical stability         Stable under recommended conditions.         10.3.       Possibility of hazardous reactions         Not established.         10.4.       Conditions to avoid         Extremely high or low temperatures.         10.5.       Incompatible materials         Oxidizers. Reducing agents.	•	ty
Stable under recommended conditions.         10.3.       Possibility of hazardous reactions         Not established.         10.4.       Conditions to avoid         Extremely high or low temperatures.         10.5.       Incompatible materials         Dxidizers.       Reducing agents.	-	rong) reducers.
0.3.       Possibility of hazardous reactions         Not established.	0.2. Chemical stability	
Not established.    O.4. Conditions to avoid  Extremely high or low temperatures.   O.5. Incompatible materials  Dxidizers. Reducing agents.	Stable under recommended conditions.	
10.4. Conditions to avoid         Extremely high or low temperatures.         10.5. Incompatible materials         Dxidizers. Reducing agents.	10.3. Possibility of hazardous reactions	S
Extremely high or low temperatures.  10.5. Incompatible materials  Dxidizers. Reducing agents.	Not established.	
Incompatible materials       Dxidizers. Reducing agents.	10.4. Conditions to avoid	
Incompatible materials       Dxidizers. Reducing agents.	Extremely high or low temperatures.	
Dxidizers. Reducing agents.	0.5. Incompatible materials	
		ts
Carbon monoxide. Carbon dioxide. Nitrogen oxides. Thermal decomposition generates : Toxic vapors.		

### 11.1. Information on toxicological effects

Acute toxicity

: Not classified

decyldimethyloctylammonium chloride (32426-11-2)		
ATE US (oral)	500.000 mg/kg body weight	
dioctyldimethylammonium chloride	ə (5538-94-3)	
ATE US (oral)	500.000 mg/kg body weight	
didecyldimethylammonium chloride (7173-51-5)		
LD50 oral rat	84 mg/kg	
ATE US (oral)	84.000 mg/kg body weight	
ethanol (64-17-5)		
LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)	
Preduct Code: C 001		

ethanol (64-17-5)	
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740.000 mg/kg body weight
alkyl dimethyl benzyl ammonium chloride (	C12-16) (68424-85-1)
LD50 oral rat	344 mg/kg
LD50 dermal rabbit	3340 mg/kg
ATE US (oral)	344.000 mg/kg body weight
ATE US (dermal)	3340.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 6 - 9
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 6 - 9
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes burns/corrosion of the skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Burns to the gastric/intestinal mucosa. Nausea. Abdominal pain. Gastrointestinal complaints.

### **SECTION 12: Ecological information**

12.1. Toxicity

ethanol (64-17-5)		
LC50 fish 1	14200 mg/l (96 h; Pimephales promelas; Nominal concentration)	
EC50 Daphnia 1	9300 mg/l (48 h; Daphnia magna)	
LC50 fish 2	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)	
Threshold limit other aquatic organisms 1	65 mg/l (72 h; Protozoa)	
Threshold limit algae 1	1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)	
Threshold limit algae 2	5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)	

#### 12.2. Persistence and degradability

ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O2/g substance
Chemical oxygen demand (COD)	1.70 g O2/g substance
ThOD	2.10 g O2/g substance
BOD (% of ThOD)	0.43 % ThOD

#### 12.3. Bioaccumulative potential

ethanol (64-17-5)	
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 13: Disposal conside	rations
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose of contents/container in accordance with Local, State, and Federal regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport inform	ation
14.1. UN Number	
14.1. ON Number	
UN-No.(DOT)	: 1903
Other information	: Under 49 CFR 173.154(c) and (b)(1): This product may be shipped as ORM-D or Limited Quantity if the inner packagings do not exceed 1 L (0.3 gallons) or 1.0 kg (2.2 lbs). This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable.
14.2. UN proper shipping name	
DOT Proper Shipping Name	: UN1903, Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compounds), 8, PGII
Hazard labels (DOT)	: 8 - Corrosive
	CODBOSIVE 8
SECTION 15: Regulatory inform	nation
15.1. US Federal regulations	
All components of this product are listed	d on the Toxic Substances Control Act (TSCA) inventory
	n a toxic chemical or chemicals in excess of the applicable de minimis concentration as to the reporting requirements of section 313 of Title III of the Superfund Amendments and R Part 372.

Reautionzation Act of 1960 and 40 CFR Fait 37			
decyldimethyloctylammonium chloride (32426-11-2)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
dioctyldimethylammonium chloride (5538-94-3)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard		
didecyldimethylammonium chloride (7173-51-	5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
ethanol (64-17-5)			
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard		
alkyl dimethyl benzyl ammonium chloride (C1	2-16) (68424-85-1)		
Listed on the United States TSCA (Toxic Substar	nces Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		

## **Quaternary Sanitizer**

Safety Data Sheet

15.2. International regulations

#### CANADA

**EU-Regulations** No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

15.2.2. National regulations

EPA Registration Number

: 10324-117-87159

### **Quaternary Sanitizer**

Safety Data Sheet

**EPA** Comments : This chemical is a pesticide registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. DANGER KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER. Keep Out of Reach of Children. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. ENVIRONMENTAL HAZARD This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. PHYSICAL OR CHEMICAL HAZARDS Do not use or store near heat or open flame. Do not mix with oxidizers, anionic soaps and detergents. FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. 15.3. US State regulations California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### SECTION 16: Other information

Abbreviations Legend:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1

Product Code: C-Q01

Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

#### Disclaimer

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

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