

# 4 Quat

# SAFETY DATA SHEET

Preparation Date: 08-Jun-2007

Revision Date: 06-Jul-2016

Revision Number: 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product Name 4 Quat

### Other means of identification

Item#: 2100

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Sanitizer

Uses advised against All other

### Details of the supplier of the safety data sheet

Supplier DeLaval Cleaning Solutions  
11100 N. Congress Ave.  
Kansas City, MO 64153  
Tel: 816-891-7700, 8am – 5pm M-F

### Emergency Telephone Number

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2A

### Label Elements

### Emergency Overview

#### WARNING

#### Hazard Statements

Causes skin irritation

Causes serious eye irritation



Appearance Clear

Physical state Liquid

Odor No information available

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	3.0
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride	32426-11-2	2.3
Dimethyldioctyl-ammonium chloride	5538-94-3	1.1
Didecyldimethylammonium chloride	7173-51-5	1.1
Ethyl alcohol	64-17-5	<2

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**FIRST AID MEASURES**

<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. Call a physician immediately.
<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**

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

**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**

No information available.

**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.

NFPA

Health 2

Flammability 0

Instability 0

## 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** Incompatible with oxidizing agents, reducing agents

## 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	NIOSH IDLH
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	3300 ppm

### Appropriate engineering controls

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

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

**Eye/face Protection** Safety glasses with side-shields.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	No information available
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	No information available	
<b>Melting point/freezing point</b>	No information available	

<b>Boiling Point/Range</b>	No information available
<b>Flash Point</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit</b>	No information available
<b>Lower flammability limit</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>Vapor Density</b>	No information available
<b>Specific Gravity</b>	1.0
<b>Water Solubility</b>	soluble
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity of Product</b>	No information available

**Other information**

**Density** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

May react with other chemicals. Do not mix with other chemicals except as directed on label.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None known.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible Materials**

Incompatible with oxidizing agents, reducing agents

**Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

**Principal Routes of Exposure** Eye contact, Skin contact, Ingestion, Inhalation

**Information on likely routes of exposure**

<b>Eyes</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin</b>	Contact causes severe skin irritation and possible burns.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful by inhalation.

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

<b>Sensitization</b>	None known.
<b>Mutagenic effects</b>	None known.
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol 64-17-5	A3	Not Listed	Known	Not Listed

ACGIH (American Conference of Governmental Industrial Hygienists)  
 A3 - Confirmed animal carcinogen with unknown relevance to humans  
 NTP (National Toxicology Program)  
 Known - Known Carcinogen  
 The classification is for "alcoholic beverages" and is intended to cover only that use of Ethyl Alcohol.

**Reproductive Effects** None known.  
**STOT - single exposure** None known.  
**STOT-repeated exposure** None known.  
**Aspiration Hazard** None known.

#### **Numerical measures of toxicity**

If available, toxicity values of individual components are shown below.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1	344 mg/kg ( Rat )	No data available	No data available
Didecyldimethylammonium chloride 7173-51-5	238 mg/kg ( Rat )	No data available	No data available
Ethyl alcohol 64-17-5	No data available	>20000 mg/kg (rabbit)	124.7 mg/L (rat )

2.25% of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical Name	Algae/aquatic plants	Fish	Microtox	Waterflea
Didecyldimethylammonium chloride 7173-51-5	EC50 0.09 mg/L 72h	LC50 0.28 mg/L 96 h	No data available	LC50 0.0059 mg/L 48 h
Ethyl alcohol 64-17-5	No data available	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50

#### **Persistence and degradability**

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

#### **Other adverse effects**

No information available

## 13. DISPOSAL CONSIDERATIONS

#### **Waste treatment methods**

##### **Waste Disposal Method**

Dispose of in accordance with local regulations. Should not be released into the environment.

##### **Contaminated Packaging**

Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

DOT Not regulated

## 15. REGULATORY INFORMATION

**California Proposition 65** This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Ethyl alcohol - 64-17-5	Carcinogen Developmental

The list of Proposition 65 chemicals lists "Ethyl alcohol in alcoholic beverages" and is intended to cover only that use of Ethyl Alcohol.

### State Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	X	X	X

### U.S. EPA Label information

**EPA Pesticide registration number** 10324-81-82882

### **EPA Statement**

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide label**

##### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. 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 HAZARDS: This product 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.

## 16. OTHER INFORMATION

**Preparation Date:** 08-Jun-2007  
**Revision Date:** 06-Jul-2016  
**Revision Note:** None

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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**End of SDS**