

# Quat 410

# SAFETY DATA SHEET

Preparation Date: 10-Jan-2008

Revision Date: 16-Jul-2020

Revision Number: 6

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

### Product Identifier

Product Name Quat 410

### Other means of identification

Item#: 2212

Synonyms None

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

Recommended use No rinse quat sanitizer, Restricted to professional users

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

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### Label Elements

#### Emergency Overview

**DANGER**

#### Hazard Statements

Harmful if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage



Appearance Clear

Physical state Liquid

Odor No information available

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: 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.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do not induce vomiting.

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	4.0
1-Decanaminium, N,N-dimethyl-N-octyl-, chloride	32426-11-2	3.0
Dimethyldioctyl-ammonium chloride	5538-94-3	1.5
Didecyldimethylammonium chloride	7173-51-5	1.5

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

### 4. FIRST AID MEASURES

**Description of first-aid measures****General Advice**

Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Wash contaminated clothing before re-use.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Call a physician immediately.

**Skin contact**

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Inhalation**

Move to fresh air. If breathing difficulty or irritation occurs, remove to fresh air and get medical attention.

**Ingestion**

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention.

**Most important symptoms and effects, both acute and delayed**

Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

**Indication of any immediate medical attention and special treatment needed**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water fog. alcohol-resistant foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

Special hazards during fire fighting: Container may rupture on heating. On combustion or on thermal decomposition: May include carbon oxides, nitrogen oxides.

**Sensitivity to static discharge** None.

**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 hazards** 3                      **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. Spill area may be slippery.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Avoid contact of spilled material and runoff with soil and surface waterways.

**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. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage**                                      Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials**                      Incompatible with oxidizing agents, Anionic surfactants

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

**Appropriate engineering controls**

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

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

**Eye/face Protection** Goggles.

**Skin and body protection** Wear appropriate chemical resistant gloves. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory Protection** In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

**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

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ Method</u></b>
<b>pH</b>	5 - 8	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	> 100 °C	
<b>Flash Point</b>	> 98 °C / > 208 °F	
<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>	0.99	
<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>	Low Viscosity	
<b>Dynamic viscosity</b>	No information available	

**Other information**

**Liquid Density** 8.3 lb/gal / 0.99 g/ml

## 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, Anionic surfactants

**Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

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

**Information on likely routes of exposure**

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

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

**Sensitization** Product is not identified as a sensitizer according to OSHA regulations.  
**Mutagenic effects** Product is not identified as a mutagen according to OSHA regulations.  
**Carcinogenicity** Product is not identified as a carcinogen according to OSHA regulations.

**Reproductive Effects** Product is not identified as having reproductive effects according to OSHA regulations.  
**STOT - single exposure** Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.

**STOT - repeated exposure** Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.

**Aspiration Hazard** Product is not identified as an aspiration hazard according to OSHA regulations.

**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

3% 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

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

<b>Waste Disposal Method</b>	Dispose of in accordance with local regulations. Should not be released into the environment.
<b>Contaminated Packaging</b>	Triple rinse containers. Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****DOT**

<b>UN-No</b>	1903
<b>Proper Shipping Name</b>	Disinfectant, liquid, corrosive, n.o.s ( Quaternary ammonium compound, )
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**15. REGULATORY INFORMATION**

State Regulations

**U.S. EPA Label information****EPA Pesticide registration number** 10324-117-82882**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 chemical-resistant 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: 10-Jan-2008

Revision Date: 16-Jul-2020

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 date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of SDS**