



# DECON-QUAT® 100

## Safety Data Sheet

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Version: 2.0

VELTEK ASSOCIATES, INC.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : DECON-QUAT® 100  
Product code : DQ-98-01NAE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Disinfectant/Sanitizer

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

Veltek Associates, Inc.  
15 Lee Blvd  
Malvern, 19355-1234 PA - USA  
T +1 610-644-8335 - F +1 610-644-8336  
vai@sterile.com

#### 1.4. Emergency telephone number

Emergency number : CARECHEM 24 call: 1-866-928-0789

### SECTION 2: Hazards identification

Appearance : Clear. Colorless to straw colored liquid with benzaldehyde (organic) odor.  
Emergency overview : DANGER!  
Causes eye burns. Direct contact may cause skin burns.  
OSHA regulatory status : This product is hazardous according to OSHA 29 CFR 1910.1200.  
Potential health effects  
Eyes : Causes eye burns. Prolonged contact causes serious eye and tissue damage.  
Skin : Causes skin burns. May cause serious chemical burns to the skin.  
Inhalation : In high concentrations, vapors may be irritating to the respiratory system.  
Ingestion : Ingestion may cause burns to the digestive tract  
Target organs : Eyes. Skin. Respiratory system.  
Chronic effects : Prolonged skin contact may cause dermatitis.  
Signs and symptoms : Extreme irritation of eyes and mucous membranes, including burning and tearing. May cause burns in mucous membranes, throat, esophagus and stomach. May cause serious chemical burns to the skin.  
Potential environmental effects :The product contains a substance which is very toxic to aquatic organisms.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Water	(CAS No) 7732-18-5	88 - 92
Alkyl dimethyl benzyl ammonium chloride (C12-18)	(CAS No) 68391-01-5	4 - 6
Alkyl dimethyl ethyl benzyl ammonium chloride (C12-14)	(CAS No) 85409-23-0	4 - 6

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 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. Obtain medical attention if breathing difficulty persists.  
First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical advice/attention.

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First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 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. Drink plenty of water. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Causes serious eye damage.
Symptoms/injuries after skin contact	: Causes eye and skin burns.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Symptoms may be delayed.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Reactivity	: Stable under normal conditions.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Move containers from fire area if you can do it without risk.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Wear suitable protective clothing and eye/face protection. Avoid all contact with skin, eyes, or clothing
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection. Use chemically protective clothing.
Emergency procedures	: Ensure adequate ventilation. Avoid inhalation of vapours. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

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.
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### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For disposal of residues refer to section 13 : Disposal considerations" .

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin, eyes and clothing. Do not breathe vapours.
Hygiene measures	: Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids. Strong oxidizing agents.

### 7.3. Specific end use(s)

Disinfectant/Sanitizer.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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USA ACGIH	Remark (ACGIH)	No exposure limits noted for ingredients
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#### 8.2. Exposure controls

Appropriate engineering controls	: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure. Wear suitable protective clothing.
Hand protection	: Wear protective gloves. Use neoprene or rubber gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
Respiratory protection	: In case of inadequate ventilation: Use an approved air purifying respirator to control exposure. Follow respirator protection requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.
Thermal hazard protection	: Not required for normal conditions of use.
Environmental exposure controls	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Other information	: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colorless to straw coloured liquid.
Colour	: Colourless to straw coloured.
Odour	: Organic.
Odour threshold	: No data available
pH	: 6 - 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 212 °F (Open cup)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.994
Solubility	: Miscible with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 2.035 mm <sup>2</sup> /s (75°F)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Hydrogen chloride.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

DECON-QUAT® 100	
LD50 oral rat	> 2500 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)	
LD50 oral rat	240 mg/kg
LD50 dermal rat	1420 mg/kg

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 sensitisation	: Not classified
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact	: Causes eye and skin burns.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Avoid release to the environment.

Alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)	
LC50 fish	1.3mg/l Guppy (Poecilia reticulata) 96h

### 12.2. Persistence and degradability

DECON-QUAT® 100	
Persistence and degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

DECON-QUAT® 100	
Bioaccumulative potential	Not established.

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container at hazardous or special waste collection point.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT

UN-No.(DOT) : 1903

DOT Proper Shipping Name : Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound)

Department of Transportation (DOT) Hazard Classes : 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) : 8 - Corrosive substances



Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) : IB3  
T4  
TP1

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

### Transport by sea

UN-No. (IMDG) : 1903

Proper Shipping Name (IMDG) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary Ammonium Compound)

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

EmS-No. (1) : F-A

EmS-No. (2) : S-B

### Air transport

UN-No.(IATA) : 1903

Proper Shipping Name (IATA) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary Ammonium Compound)

Class (IATA) : 8 - Corrosives

Packing group (IATA) : III - Minor Danger

### TDG transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

DECON-QUAT® 100	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not applicable
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

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Clean Air Act (CAA) Section 112 Hazardous Air Pollutants List	Not regulated
CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)	Not regulated
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated

### Alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Alkyl dimethyl ethyl benzyl ammonium chloride (C12-14) (85409-23-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

### CANADA

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

#### DECON-QUAT® 100

WHMIS Classification: Class E - Corrosive Material

### 15.2.2. National regulations

#### DECON-QUAT® 100

Drug Enforcement Administration (DEA) (21 CFR1308.11-15): Not controlled

## 15.3. US State regulations

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated

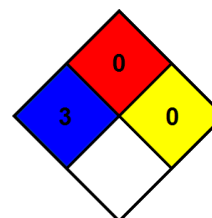
US. Pennsylvania RTK - Hazardous Substances

Not regulated

## SECTION 16: Other information

Data sources :  
Other information : US EPA Registration # 10324-63-68959  
Canada DIN #02368390

NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.  
NFPA fire hazard : 0 - Materials that will not burn.  
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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### HMIS III Rating

Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: G

SDS US (GHS HazCom 2012)

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