



# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

VELTEK ASSOCIATES, INC.

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Version: 5.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : DECON-QUAT® 200V  
Product code : SDS VEL-034

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant  
Cleaning agent  
For manufacturing and industrial use only  
For professional use only

#### 1.3. Supplier

Veltek Associates, Inc.  
15 Lee Blvd  
Malvern, PA 19355-1234 USA  
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336  
E-mail: vai@sterile.com

In Canada distributed by:  
Canada Clean Room (CCR)  
200 Terence Matthews  
Kanata, ONT K2M 2C6, Canada  
Telephone: 888-595-8070

#### 1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061  
1-866-928-0789 (toll free)  
Canada: 1-800-579-7421 (toll free)  
Mexico: +52-55-5004-8763

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 4	H227	Combustible liquid
Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Skin corrosion/irritation Category 1C	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation)
Hazardous to the aquatic environment - Acute Hazard Category 1	H400	Very toxic to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects

Full text of H statements : see section 16

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H227 - Combustible liquid  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H373 - May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation)  
H400 - Very toxic to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS US)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 - Do not breathe vapors.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective gloves, protective clothing.  
P301+P312 - If swallowed: Call a doctor if you feel unwell  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a doctor  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use Water spray, foam, carbon dioxide (CO2) to extinguish.  
P391 - Collect spillage.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to an authorized waste collection point

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Didecyltrimethylammonium chloride	(CAS-No.) 7173-51-5	9.6 - 10.6	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	(CAS-No.) 68424-85-1	6.4 - 7.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400
Ethanol	(CAS-No.) 64-17-5	2.1 - 4.2	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Tetrasodium ethylene diamine tetraacetate	(CAS-No.) 64-02-8	2.9 - 3.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373
Alcohols, C9-11, branched and linear, ethoxylated	(CAS-No.) 68439-46-3	2.3 - 2.5	Eye Dam. 1, H318

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard classes and H-statements : see section 16

### 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 person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Obtain immediate medical attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. Obtain immediate medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Inhalation of vapors may cause respiratory irritation.
Symptoms/effects after skin contact	: Causes burns.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Severe irritation or burns to the mouth, throat, esophagus, and stomach. Harmful if swallowed.
Chronic symptoms	: May cause damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled).

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Alcohol-resistant foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use water jet.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid and vapor. Fire may produce irritating, corrosive and/or toxic gases. Hydrogen chloride. Nitrogen oxides. Carbon monoxide. Carbon dioxide.
Explosion hazard	: On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
Reactivity	: Stable under recommended handling and storage conditions (see section 7).

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Keep upwind. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.
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

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Remove all sources of ignition. Ventilate area. Do not breathe vapors. Do not get in eyes, on skin, or on clothing. 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	: Remove all sources of ignition. Ventilate area. Do not breathe vapors. Do not get in eyes, on skin, or on clothing.

#### 6.2. Environmental precautions

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

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Take off immediately all contaminated clothing and wash it before reuse. 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, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Store locked up.

Incompatible materials : Strong acids. Strong alkalis. Strong oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ethanol (64-17-5)		
ACGIH	Local name	Ethanol
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide good ventilation in process area to prevent formation of vapor. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Wear suitable protective clothing.

#### Hand protection:

Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

#### 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. Impervious footwear must be worn

#### Respiratory protection:

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

### Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Colorless to straw-colored liquid.
Color	: Colorless to straw yellow
Odor	: Organic
Odor threshold	: No data available
pH	: 6 - 8
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 155.3 °F (68.5 °C) (Tag closed cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.006 (Water = 1)
Solubility	: Water: Miscible
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 13.6 mm <sup>2</sup> /s (22 °C/71.6 °F)
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7). Combustible liquid and vapor.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong alkalis. Strong acids.

### 10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Hydrogen chloride. Nitrogen oxides. Carbon monoxide. Carbon dioxide.

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### **Didecyldimethylammonium chloride (7173-51-5)**

LD50 oral, rat	329 mg/kg
LD50 dermal, rabbit	> 1000 mg/kg

#### **Tetrasodium ethylene diamine tetraacetate (64-02-8)**

LD50 oral, rat	1780 - 2000 mg/kg
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#### **Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)**

LD50 oral, rat	3488 mg/kg (female)(Read-across)
LD50 dermal, rabbit	2000 mg/kg (male)(Read-across)
LC50 inhalation, rat (mg/l)	> 1.6 mg/l - 4 Hours (Read-across)

#### **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)**

LD50 oral, rat	426 mg/kg
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#### **Ethanol (64-17-5)**

LD50 oral, rat	10470 mg/kg
LC50 inhalation, rat (mg/l)	117 - 125 mg/l - 4 Hours

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
pH: 6 - 8

Serious eye damage/irritation : Causes serious eye damage.  
pH: 6 - 8

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).

#### **Tetrasodium ethylene diamine tetraacetate (64-02-8)**

Specific target organ toxicity – repeated exposure	May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).
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Aspiration hazard : Not classified

Viscosity, kinematic : 13.6 mm<sup>2</sup>/s (22 °C/71.6 °F)

Symptoms/effects after inhalation : Inhalation of vapors may cause respiratory irritation.

Symptoms/effects after skin contact : Causes burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, esophagus, and stomach. Harmful if swallowed.

Chronic symptoms : May cause damage to organs (respiratory tract) through prolonged or repeated exposure (if inhaled).

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

#### **Didecyldimethylammonium chloride (7173-51-5)**

LC50 fish	0.49 mg/l - 96 Hours (Danio rerio)
EC50 Daphnia	0.029 mg/l - 48 Hours (Daphnia magna)

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Didecyldimethylammonium chloride (7173-51-5)

NOEC (chronic)	0.021 mg/l - 21 days (Daphnia magna)
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### Tetrasodium ethylene diamine tetraacetate (64-02-8)

LC50 fish	486 mg/l - 96 Hours
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### Ethanol (64-17-5)

LC50 fish	11200 mg/l (calculated value)
EC50 Daphnia	5012 mg/l (calculated value) (freshwater)
EC50 Daphnia 2	857 mg/l (calculated value) (marine water)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

Log Pow	3.74 (25 °C)
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#### Ethanol (64-17-5)

Bioconcentration factor (BCF REACH)	3
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### 12.4. Mobility in soil

#### DECON-QUAT® 200V

Ecology - soil	Miscible with water.
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### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal 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

### Department of Transportation (DOT)

In accordance with DOT

Transport document description	: UN1903 Disinfectants, liquid, corrosive n.o.s. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), 8, III
UN-No.(DOT)	: UN1903
Proper Shipping Name (DOT)	: Disinfectants, liquid, corrosive n.o.s. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive



Dangerous for the environment : Yes

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203  
DOT Packaging Bulk (49 CFR 173.xxx) : 241  
DOT Symbols : G  
DOT Special Provisions (49 CFR 172.102) : IB3, T4, TP1  
DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : A  
Emergency Response Guide (ERG) Number : 153  
Other information : No supplementary information available.

### Transportation of Dangerous Goods

Transport document description : UN1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), 8, III  
UN-No. (TDG) : UN1903  
Proper Shipping Name (Transportation of Dangerous Goods) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)  
TDG Primary Hazard Classes : 8 - Class 8 - Corrosives  
Packing group : III - Minor Danger  
TDG Special Provisions : 16  
Explosive Limit and Limited Quantity Index : 5 L  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L

### Transport by sea

Transport document description (IMDG) : UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS  
UN-No. (IMDG) : 1903  
Proper Shipping Name (IMDG) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)  
Class (IMDG) : 8 - Corrosive substances  
Packing group (IMDG) : III - substances presenting low danger  
Marine pollutant : Yes



### Air transport

Transport document description (IATA) : UN 1903 Disinfectant, liquid, corrosive, n.o.s. (Didecyldimethylammonium chloride, Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides), 8, III, ENVIRONMENTALLY HAZARDOUS  
UN-No. (IATA) : 1903  
Proper Shipping Name (IATA) : Disinfectant, liquid, corrosive, n.o.s. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)  
Class (IATA) : 8 - Corrosives  
Packing group (IATA) : III - Minor Danger



# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### DECON-QUAT® 200V

SARA Section 311/312 Hazard Classes

Physical hazard - Flammable (gases, aerosols, liquids, or solids)  
Health hazard - Acute toxicity (any route of exposure)  
Health hazard - Skin corrosion or Irritation  
Health hazard - Serious eye damage or eye irritation  
Health hazard - Specific target organ toxicity (single or repeated exposure)

##### Didecyldimethylammonium chloride (7173-51-5)

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

##### Tetrasodium ethylene diamine tetraacetate (64-02-8)

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

##### Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

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

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

##### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

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

##### Ethanol (64-17-5)

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

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

##### DECON-QUAT® 200V

This chemical is a pesticide product registered by the United States Environmental Protection Agency (10324-141-68959) 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 hazard information required on the pesticide label is reproduced below in Section 16. The pesticide label also includes other important information, including directions for use. Canada DIN #02375346.

##### Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Didecyldimethylammonium chloride(7173-51-5)	
Alcohols, C9-11, branched and linear, ethoxylated(68439-46-3)	
Tetrasodium ethylene diamine tetraacetate(64-02-8)	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides(68424-85-1)	

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Component	State or local regulations
Ethanol(64-17-5)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

Revision date : 11/29/2018  
Data sources : US OSHA HazCom (GHS) 25 May 2012.  
Other information : Danger. Keep out of reach of children.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms:

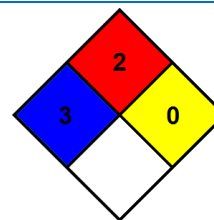
	ACGIH (American Conference of Government Industrial Hygienists)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	DNEL (Derived No Effect Level)
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	STEL (Short Term Exposure Limit)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

# DECON-QUAT® 200V

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
- NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



- Hazard Rating
- Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given  
\* - Chronic (long-term) health effects may result from repeated overexposure
- Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : C  
C - Safety glasses, Gloves, Synthetic apron

Indication of changes:

Section	Changed item	Change	Comments
2	Hazards identification	Modified	
14	Transport information	Modified	

SDS US (GHS HazCom 2012)

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