

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 8/27/2018 Revision date: 2/23/2024 Supersedes: 8/27/2018 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : DECON-QUAT® 100 (Use Dilution)

Product code : SDS VEL-135

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant/Sanitizer
Restrictions on use : No additional information

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)

20 Cope Dr.

Kanata, ON K2M 2V8, Canada Telephone: 1-(888)-595-8070

Fisher Scientific 112 Colonnade Road

Ottawa, Ontario, Canada K2E 7L6 Telephone: 1-800-234-7437

VWR International 2360 Argentia Road

Mississauga, Ontario L5N 5Z7 Telephone: 1-800-932-5000

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061

1-866-928-0789 (toll free USA) 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

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	CAS-No.: 7732-18-5	99.8 - 99.95	Not classified
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	CAS-No.: 68391-01- 5/53516-76-0	0.025 - < 0.1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	CAS-No.: 85409-23- 0/68956-79-6	0.025 - < 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ethanol, ethyl alcohol	CAS-No.: 64-17-5	0.025 - < 0.1	Flam. Liq. 2, H225 Eye Irrit. 2A, H319

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 persist, obtain medical attention.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact First-aid measures after ingestion

- : Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention.
- : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 200 ml of water to drink. If symptoms develop, obtain medical attention.

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

Potential Adverse human health effects and symptoms

: Slight eye irritant upon direct contact.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable. Hazardous decomposition products in case of fire : None known.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Cool closed containers that are near the source

of the fire. Prevent fire-fighting water from entering environment.

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 : Ventilate area. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. See Section 8.

Emergency procedures : Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Dam up the liquid spill.

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 : Avoid contact with skin and eyes. Use only in well ventilated areas. Dispose of

contents/container to an authorized waste collection point.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before

reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

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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. Protect from sunlight. Keep away from food,

drink and animal feeding stuffs.

Incompatible materials : Water-reactive materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol, ethyl alcohol (64-17-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethanol
ACGIH STEL (ppm)	1000 ppm
Remark (ACGIH)	URT irr
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Ethyl alcohol (Ethanol)
OSHA PEL (TWA) (mg/m³)	1900 mg/m³
OSHA PEL TWA	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation. Ensure exposure is below occupational exposure limits (where

available).

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.

Hand protection:

Not required for normal conditions of use

Eye protection:

Not required for normal conditions of use. Wear goggles or safety glasses with side shields if contact with the eyes is possible

Skin and body protection:

Not required for normal conditions of use

Respiratory protection:

Not required for normal conditions of 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance Colorless liquid. Color Colorless Odor Characteristic No data available Odor threshold

: 5-8

рΗ Melting point : Not applicable Freezing point : No data available Boiling point : No data available Flash point : Not flammable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not flammable. Vapor pressure No data available Relative vapor density at 20°C No data available Relative density ≈ 1 (Water = 1) Density ≈ 1 g/cm³ : Water: Miscible Solubility Log Pow : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosion limits** No data available

Not explosive.

Not oxidizing.

9.2. Other information

Explosive properties

Oxidizing properties

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).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Water-reactive materials.

10.6. Hazardous decomposition products

None known.

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SECTION 11: Toxicological information

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
, ,	Not classified	
,	Not classified	
Acute toxicity (inhalation) :	Not classified	
DECON-QUAT® 100 (Use Dilution)		
LD50 oral, rat	> 5000 mg/kg	
LD50 dermal, rabbit	> 2000 mg/kg	
Quaternary ammonium compounds, benzyl-C	12-18-alkyldimethyl, chlorides (68391-01-5/53516-76-0)	
LD50 oral, rat	430 mg/kg	
LD50 dermal, rat	3560 mg/kg	
ATE US (oral)	430 mg/kg body weight	
ATE US (dermal)	3560 mg/kg body weight	
Quaternary ammonium compounds, C12-14-a	lkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0/68956-79-6)	
LD50 oral, rat	344 mg/kg body weight	
LD50 dermal, rabbit	1150 mg/kg (OECD 402 method)	
ATE US (oral)	344 mg/kg body weight	
ATE US (dermal)	1150 mg/kg body weight	
ethanol, ethyl alcohol (64-17-5)		
LD50 oral, rat	10470 mg/kg (95% Aqueous solution)(OECD 401 method)	
LC50 inhalation, rat (mg/l)	124.7 mg/l - 4 Hours, vapors (OECD 401 method)	
ATE US (oral)	10470 mg/kg body weight	
ATE US (vapors)	124.7 mg/l/4h	
ATE US (dust, mist)	124.7 mg/l/4h	
Skin corrosion/irritation :	Not classified	
	pH: 5 – 8	
Serious eye damage/irritation :	Not classified pH: 5 – 8	
Respiratory or skin sensitization :	Not classified	
	Not classified	
.	Not classified	
	No data available	
	Slight eye irritant upon direct contact.	

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SECTION 12: Ecological information

12.1. Toxicity

Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (68391-01-5/53516-76-0)		
LC50 fish	0.515 mg/l (Lepomis macrochirus)	
NOEC chronic crustacea	0.0042 mg/l (Daphnia)	
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0/68956-79-6)		
LC50 fish	≈ 1.06 mg/l - 96 Hours (Oncorhynchus mykiss)(OECD 203 method)	
EC50 Daphnia	≈ 0.015 mg/l - 48 Hours (Daphnia magna)(OECD 202 method)	
EC50 72h - Algae [1]	≈ 0.026 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Growth rate)(OECD 201 method)	
EC50 72h - Algae [2]	≈ 0.019 mg/l - 72 Hours (Pseudokirchneriella subcapitata, Biomass)(OECD 201 method)	
NOEC chronic fish	0.0322 mg/l - 28 days (Pimephales promelas)(U.S. EPA FIFRA 72-4(a))	
NOEC chronic crustacea	≥ 0.00415 mg/l - 21 days (Daphnia magna)(U.S. EPA FIFRA 72-4(b))	
ethanol, ethyl alcohol (64-17-5)		
LC50 fish	14200 mg/l - 96 Hours (Pimephales promelas)	
EC50 - Other aquatic organisms [1]	4432 mg/l - 7 days (Lemna gibba, number of plants)	
LC50 - Other aquatic organisms [2]	5012 mg/l - 48 Hours (Ceriodaphnia dubia)	
ErC50 algae	275 mg/l - 72 Hours (Chlorella vulgaris), (OECD 201 method)	
NOEC (acute)	250 mg/l - 120 Hours (Danio rerio)	
NOEC (chronic)	280 mg/l - 7 days (Lemna gibba, number of plants)	
NOEC chronic fish	250 mg/l - 120 Hours (Danio rerio), (OECD 212 method)	
NOEC chronic crustacea	9.6 mg/l - 10 days (Ceriodaphnia dubia, reproduction)	
EC10, algae	11.5 mg/l (72 Hours, Chlorella vulgaris (OECD 201 method))	

12.2. Persistence and degradability

DECON-QUAT® 100 (Use Dilution)			
Persistence and degradability	No information available.		
Quaternary ammonium compounds, benzyl-C	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (68391-01-5/53516-76-0)		
Persistence and degradability	Not established.		
Quaternary ammonium compounds, C12-14-a	lkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0/68956-79-6)		
Persistence and degradability	Readily biodegradable.		
Biodegradation	95.5 % - 28 days (Activated sludge)(OECD 301B method)		
ethanol, ethyl alcohol (64-17-5)			
Persistence and degradability	Readily biodegradable.		
Chemical oxygen demand (COD)	1.99 g O2/g substance		
Biodegradation	≈ 74 % (10 days, O2 consumption)		
Water (7732-18-5)			
Persistence and degradability	Not established.		

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12.3. Bioaccumulative potential

DECON-QUAT® 100 (Use Dilution)			
Bioaccumulative potential Not expected to bioaccumulate.			
Quaternary ammonium compounds, C12-14-a	Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0/68956-79-6)		
Bioconcentration factor (BCF REACH) 79 (Lepomis macrochirus)(EPA OPP 165-4)			
Bioaccumulative potential Low bioaccumulation potential.			
ethanol, ethyl alcohol (64-17-5)			
Log Pow -0.35 (24 °C, pH: 7.4), (OECD 107 method)			
Bioaccumulative potential	Low bioaccumulation potential.		

12.4. Mobility in soil

DECON-QUAT® 100 (Use Dilution)		
Ecology - soil	Miscible with water.	
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides (85409-23-0/68956-79-6)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc) 6.21 (U.S. EPA N 163-1)		
ethanol, ethyl alcohol (64-17-5)		
Ecology - soil	Miscible with water.	

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No : Not applicable UN-No. (TDG) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

ΙΔΤΔ

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Not applicable - This dilution of product is an on-site dilution in water by the user according to

product label directions. It is not supplied nor transported in commerce at this dilution. See VEL SDS DQ-98-01 for transport information and hazards of undiluted product concentrate.

DOT

No data available

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	68391-01-5/53516-76-0	Present	Active	
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	85409-23-0/68956-79-6	Not present	-	
ethanol, ethyl alcohol	64-17-5	Present	Active	

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Name	CAS-No.	_	Commercial status	Flags
Water	7732-18-5	Present	Active	

15.2. International regulations

CANADA

ethanol, ethyl alcohol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

DECON-QUAT® 100 (Use Dilution)

This chemical is a pesticide product registered by the United States Environmental Protection Agency (10324-63-68959) 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 KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO. The pesticide label also includes other important information, including directions for use. Canada DIN #02368390. In Canada, this product is a drug product registered with Health Canada.

ethanol, ethyl alcohol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Water (7732-18-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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
ethanol, ethyl alcohol(64-17-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Highly flammable liquid and vapor

Data sources : US OSHA HazCom (GHS) 25 May 2012.

Full text of H-phrases

H225

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Full text of I	Full text of H-phrases	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

Abbreviations	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)		

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and

sand

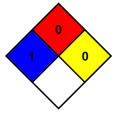
NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire

conditions.



Health : 1 Slight Hazard - Irritation or minor reversible injury possible



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Flammability : 0 Minimal Hazard - Materials that will not burn

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 : B - Safety glasses, Gloves

Indication of changes:			
Section	Changed item	Change	Comments
1	Identification	Modified	No additional information available
3	Hazards identification	Modified	No additional information available
8	Exposure controls / Personal protection equipment	Modified	No additional information available
15	Regulatory information	Modified	No additional information available

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This SDS has been translated into the official language of the country/region in which the product is to be placed on the market. Where no official translation exists, the regulatory text is reported in English, as it appears in the relevant regulatory text.