



VELTEK ASSOCIATES, INC.

DECON-QUAT® 200C

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272
Issue date: 12/15/2011 Revision date: 6/26/2026 Supersedes: 7/31/2024 Version: 6.1

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : DECON-QUAT® 200C
Product code : SDS VEL-110

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Disinfectant, Cleaning agent
Restrictions on use : For manufacturing, professional, and industrial use only.

1.4. Supplier's details

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335
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

1.5. Emergency phone 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 Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, 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 through prolonged or repeated exposure.
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

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2.2. Label elements

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 through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H411 - Toxic 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, forearms and face 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.
P314 - Get medical advice or attention if you feel unwell.
P330 - Rinse mouth.
P363 - Take off immediately all contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use water, alcohol resistant 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 and/or container to an authorized waste collection point.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

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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 Chronic 2, H411
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS-No.: 68424-85-1	6.4 - 7.1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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 Irrit. 2A, H319 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

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

SECTION 4 First aid measures

4.1. Description of necessary 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/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. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water. 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.
Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Use water for cooling exposed containers.
Hazardous decomposition products in case of fire : Hydrogen chloride. Nitrogen oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Keep upwind. Use water 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

General measures : Avoid all unnecessary exposure.

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.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Concerning personal protective equipment to use, see item 8.
Emergency procedures : Remove all sources of ignition. Ventilate area. Do not breathe vapors. Do not get in eyes, on skin, or on clothing.
Environmental precautions : Collect spillage. Do not allow to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

6.2. Methods and materials 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.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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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 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.
Incompatible materials : Strong acids. Strong alkalis. Strong oxidizing agents.
Specific end uses : Disinfectant. Cleaning agent. For manufacturing and industrial use only. For professional use only.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)	
USA - ACGIH® - Threshold Limit Values	
Local name	Ethanol
ACGIH® TLV® STEL	1880 mg/m³
ACGIH STEL (ppm)	1000 ppm
Remark (ACGIH®)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
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
USA - NIOSH - Occupational Exposure Limits	
Local name	Ethyl alcohol (Ethanol)
NIOSH REL 10h TWA	1000 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Canada (Alberta) - Occupational Exposure Limits	
Local name	Ethanol (Ethyl alcohol)
OEL TWA	1880 mg/m³
OEL TWA	1000 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Ethyl alcohol (Ethanol) # Alcool éthylique (Éthanol)
VECD (OEL STEV)	1000 ppm
Notations and remarks	C3

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Ethanol (64-17-5)	
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety # S-2.1, r. 13 - Règlement sur la santé et la sécurité du travail
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Ethanol
OEL STEL	1000 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Ethanol
OEL STEL	1880 mg/m ³
OEL STEL	1000 ppm
Notations and remarks	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Ethanol
OEL STEL	1000 ppm
Notations and remarks	URT irr
Regulatory reference	ACGIH
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Ethanol
OEL STEL	1880 mg/m ³
OEL STEL	1000 ppm
Notations and remarks	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Ethanol
OEL STEL	1880 mg/m ³
OEL STEL	1000 ppm
Notations and remarks	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Ethanol # Éthanol
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) # Règlement sur la santé et la sécurité au travail, Règ Nu 003-2016 (Modification R-044-2021)

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Ethanol (64-17-5)	
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Ethanol # Éthanol
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-124-2018) # Règlement sur la santé et la sécurité au travail R-039-2015 (R-124-2018)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Ethanol
OEL TWAEV	1000 ppm
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Ethanol
OEL STEL	1880 mg/m³
OEL STEL	1000 ppm
Notations and remarks	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Ethanol
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide adequate ventilation. Emergency eye wash stations 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, such as personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wear suitable protective clothing.

Hand protection:
Wear chemically resistant protective gloves. Hand Protection in accordance with 29 CFR 1910.138 & ANSI/ISEA 105-2016. 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. Eye Protection in accordance with 29 CFR 1910.133 & ANSI/ISEA Z87.1-2020

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Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact. Impervious footwear must be worn. Foot Protection in accordance with 29 CFR 1910.136 & ANSI Z41-1991

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Respiratory protection in accordance with 29 CFR 1910.134 & ANSI Z88.2 / ANSI Z88.6. Employers must select and provide National Institute for Occupational Safety and Health (NIOSH)-approved respiratory protection when employees are exposed to airborne hazards exceeding the Permissible Exposure Limits (PEL), listed in the OSHA air contaminants standard 29 CFR 1910.1000.

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. 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
pH solution concentration	: 100
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)
Flammability (solid, gas)	: Combustible liquid.
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 mm²/s (22 °C/71.6 °F)
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

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.

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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.

SECTION 11 Toxicological information

Likely routes of exposure : Skin and eye contact.

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

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ATE US (oral)	500 mg/kg body weight
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Didecyldimethylammonium chloride (7173-51-5)

LD50 oral, rat	≈ 329 mg/kg body weight (OECD 401 method)
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LD50 dermal, rabbit	> 1000 mg/kg body weight (OECD 402 method)
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ATE US (oral)	500 mg/kg body weight
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Tetrasodium ethylene diamine tetraacetate (64-02-8)

LD50 oral, rat	1658 mg/kg (OECD 401 method)
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ATE US (oral)	1658 mg/kg body weight
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ATE US (gases)	4500 ppmV/4h
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ATE US (vapors)	11 mg/l/4h
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ATE US (dust, mist)	1.5 mg/l/4h
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LOAEC, Inhalation, rat	≈ 30 mg/m³ (6 Hours, (OECD 412 method))
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Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

LD50 oral, rat	> 2000 mg/kg (female)(Read-across)
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LD50 dermal, rabbit	> 2000 mg/kg (male)(Read-across)
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LC50 inhalation, rat (mg/l)	> 1.6 mg/l - 4 Hours (Read-across)
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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

LD50 oral, rat	350 mg/kg (OECD 401 method)
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LD50 oral	280.8 mg/kg
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LD50 dermal, rabbit	2848 mg/kg (EPA OPPTS 870.1200)
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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LD50 dermal	704 mg/kg
LC50 inhalation, rat (Dust/Mist - mg/l/4h)	0.054 mg/l/4h
ATE US (oral)	350 mg/kg body weight
ATE US (dermal)	2848 mg/kg body weight
ATE US (dust, mist)	0.054 mg/l/4h

Ethanol (64-17-5)	
LD50 oral, rat	10470 mg/kg (calculated value)
LC50 inhalation, rat (mg/l)	116.9 mg/l/4h (OECD 403 method)
ATE US (oral)	10470 mg/kg body weight
ATE US (vapors)	116.9 mg/l/4h
ATE US (dust, mist)	116.9 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns. 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

Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

Tetrasodium ethylene diamine tetraacetate (64-02-8)	
STOT-repeated exposure	May cause damage to organs (Respiratory tract) through prolonged or repeated exposure (Inhalation).
Aspiration hazard	: Not classified

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Viscosity, kinematic	13.6 mm²/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. Ecotoxicity

Ecology - general	: Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.

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Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.
(chronic)

Didecyldimethylammonium chloride (7173-51-5)	
LC50 fish	≈ 0.49 mg/l - 96 Hours (Danio rerio), (OECD 203 method)
EC50 Daphnia	≈ 0.029 mg/l - 48 Hours (Daphnia magna, Mobility), (OECD 202 method)
ErC50 algae	≈ 0.062 mg/l - 72 Hours (Pseudokirchneriella subcapitata), (OECD 201 method)
NOEC chronic crustacea	≈ 0.021 mg/l - 21 days (Daphnia magna, reproduction), (OECD 211 method)
NOEC, algae	≈ 0.013 mg/l (72 Hours, Pseudokirchneriella subcapitata, Growth rate (OECD 201 method))
Tetrasodium ethylene diamine tetraacetate (64-02-8)	
LC50 fish	> 100 mg/l 96h - Oncorhynchus mykiss (OECD 203 method)
EC50 Daphnia	> 114 mg/l 48h - Daphnia Magna (OECD 202 method)
EC50 72h - Algae [1]	> 100 72h - Raphidocelis subcapitata (OECD 201 method)
NOEC chronic fish	≥ 35.1 mg/l 35d - Danio rerio (OECD 210 method)
NOEC chronic crustacea	25 mg/l 21d - Daphnia Magna (OECD 211 method)
NOEC chronic algae	79.4 mg/l 72h - Raphidocelis subcapitata (OECD 201 method)
Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)	
LC50 fish	6.28 mg/l - 96 Hours (Oncorhynchus mykiss)
EC50 Daphnia	1.95 mg/l - 48 Hours (Daphnia magna, Mobility)
ErC50 algae	2.99 mg/l - 72 Hours (Raphidocelis subcapitata) (OECD 201 method)
NOEC chronic crustacea	0.107 mg/l TWA (Time Weighted Average) - 21 days (Daphnia magna) (OECD 211 method)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LC50 fish	0.064 mg/l
EC50 Daphnia	0.0059 mg/l
NOEC chronic fish	32.2 µg/L - 28d (Pimephales promelas) U.S. EPA FIFRA 72-4(a)
NOEC chronic crustacea	0.00415 mg/l
Ethanol (64-17-5)	
LC50 fish	11200 mg/l (calculated value)
LC50 other aquatic organisms	4432 mg/l - 7 days (Lemna gibba)
EC50 Daphnia	5012 mg/l (calculated value) (freshwater)
LC50 fish 2	15300 mg/l - 96 Hours (Pimephales promelas) (US-EPA- Method E03-05)
EC50 - Crustacea [2]	857 mg/l (calculated value) (marine water)
EC50 72h - Algae [1]	275 mg/l - 72 Hours (Chlorella vulgaris)
NOEC (chronic)	280 mg/l - 7 days (Lemna gibba)
NOEC chronic fish	250 mg/l - 120 Hours (Danio rerio)
NOEC chronic crustacea	9.6 mg/l - 10 days (Ceriodaphnia dubia, reproduction)
NOEC chronic algae	11.5 mg/l - 72 Hours (Chlorella vulgaris)

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12.2. Persistence and degradability

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Persistence and degradability	Not established.
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Didecyltrimethylammonium chloride (7173-51-5)

Persistence and degradability	Readily biodegradable.
Biodegradation	> 99.95 % - 28 days (Activated sludge), (OECD 301D method)
Biodegradation, O ₂ consumption, river water	≈ 69 % (28 days, (OECD 301D method))

Tetrasodium ethylene diamine tetraacetate (64-02-8)

Persistence and degradability	Not readily biodegradable.
Biodegradation	78 % - 56 days (river water, O ₂ consumption) (OECD 301D method)

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

Persistence and degradability	Readily biodegradable.
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Quaternary ammonium compounds, benzyl-C₁₂-16-alkyldimethyl, chlorides (68424-85-1)

Persistence and degradability	Readily biodegradable.
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Ethanol (64-17-5)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

Didecyltrimethylammonium chloride (7173-51-5)

Log Pow	≈ 2.59 (20 °C, pH ≈ 7), (OECD 105 method)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

Tetrasodium ethylene diamine tetraacetate (64-02-8)

BCF - Fish [1]	≈ 1.8 l/kg - 28 days (Lepomis macrochirus (Bluegill), Whole body) (OECD 305 method)
Log Pow	-13.17 (calculated value) (25 °C, QSAR)
Bioaccumulative potential	Not expected to bioaccumulate.

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

Log Pow	≈ 2.72 (25 °C)
Bioaccumulative potential	Not expected to bioaccumulate.

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

BCF - Fish [1]	79 l/kg
Bioaccumulative potential	Low bioaccumulation potential.

Ethanol (64-17-5)

Log Pow	-0.35 (20 °C)
Bioaccumulative potential	Low bioaccumulation potential.

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272

12.4. Mobility in soil

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Ecology - soil	Miscible with water.
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Didecyldimethylammonium chloride (7173-51-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.75 (20 °C), (OECD 106 method)
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Ecology - soil	Expected to adsorb to soil. Low mobility (soil).
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Tetrasodium ethylene diamine tetraacetate (64-02-8)

Ecology - soil	Mobile in soils.
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Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

Ecology - soil	Adsorbs into the soil moderately.
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Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Ecology - soil	Expected to be relatively immobile in soil.
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12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Waste disposal recommendations : Dispose of this product and its container 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 / TDG / IMDG / IATA

14.1. UN number

UN-No. (DOT) : UN1903

UN-No. (TDG) : UN1903

UN-No. (IMDG) : 1903

UN-No. (IATA) : 1903

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Disinfectants, liquid, corrosive n.o.s. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

Proper Shipping Name (TDG) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

Proper Shipping Name (IMDG) : DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

Proper Shipping Name (IATA) : Disinfectant, liquid, corrosive, n.o.s. (Didecyldimethylammonium chloride ; Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides)

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14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 8
Hazard labels (DOT) : 8



TDG

Transport hazard class(es) (TDG) : 8
Hazard labels (TDG) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Hazard labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



14.4. Packing group

Packing group (DOT) : III
Packing group (TDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes



Other information : Marine Pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5lt or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general requirements of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria of inclusion in another hazards class all provisions of the Code relevant to any additional hazards continue to apply.

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14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

Special transport precautions : Marine Pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5lt or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general requirements of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria of inclusion in another hazards class all provisions of the Code relevant to any additional hazards continue to apply

DOT

UN-No. (DOT) : UN1903
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

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
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 - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

TDG

UN-No. (TDG) : UN1903
TDG Special Provisions : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3).
(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:
(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;
(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;
(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;
(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or
(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.
(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:
(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.

Explosive Limit and Limited Quantity Index : 5 L
Excepted quantities (TDG) : E1

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Passenger Carrying Road Vehicle or Passenger : 5 L
Carrying Railway Vehicle Index
Emergency Response Guide (ERG) Number : 153

IMDG

No data available

IATA

Special provision (IATA) : A3, A803
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
ERG code (IATA) : 8L

SECTION 15 Regulatory information

15.1. Federal regulations

DECON-QUAT® 200C

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)
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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
Didecyldimethylammonium chloride	7173-51-5	Present	Active	
Tetrasodium ethylene diamine tetraacetate	64-02-8	Present	Active	
Alcohols, C9-11, branched and linear, ethoxylated	68439-46-3	Present	Active	XU
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	Present	Active	TP
Ethanol	64-17-5	Present	Active	

15.2. International regulations

CANADA

Didecyldimethylammonium chloride (7173-51-5)

Listed on the Canadian DSL (Domestic Substances List)

Tetrasodium ethylene diamine tetraacetate (64-02-8)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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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 #02374919.

Didecyldimethylammonium chloride (7173-51-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Tetrasodium ethylene diamine tetraacetate (64-02-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. 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(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

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272

Revision date : 6/26/2026
Issue date : 12/15/2011
Data sources : US OSHA HazCom (GHS) 25 May 2012 as amended. ECHA (European Chemicals Agency), <http://echa.europa.eu/>. SDS Canada (HPR 2022).

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272

Other information : Danger. Keep out of reach of children. Classification procedure. Physical hazards: On basis of test data. Health hazards: On basis of test data & Calculation method. Environmental hazards: On basis of test data & Calculation method.

Full text of hazard classes and H-statements	
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
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
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
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)
	Canda HPR (Canadian Hazardous Products Regulations 2022)
	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)

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Abbreviations and acronyms	
	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

NFPA fire hazard

NFPA reactivity

Hazard Rating Health

Flammability

Physical

Personal protection

: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

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

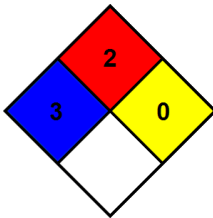
: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

: * - Chronic (long-term) health effects may result from repeated overexposure

: 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)

: 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.

: C - Safety glasses, Gloves, Synthetic apron



Indication of changes:		
Section	Changed item	Comments
1	Identification	Modified
2	Hazards identification	Modified
3	Composition/Information on ingredients	Modified
4	First aid measures	Modified
5	Fire fighting measures	Modified
6	Accidental release measures	Modified
7	Handling and storage	Modified
8	Exposure controls / Personal protection equipment	Modified
10	Stability and reactivity	Modified
11	Toxicological information	Modified
12.	Ecological information	Modified
13	Disposal considerations	Modified
14	Transport information	Modified
15	Regulatory information	Modified
16	Other information	Modified

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