

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 7/15/2021 Revision date: 7/15/2021 Supersedes version of: 3/5/2019 Version: 3.0

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

1.1. Product identifier

Product form : Mixture

Trade name : DBO CITRON VERT - Dose 20 ml
UFI : TMF7-S0VM-200F-U1JH

Product code : 2698-072-1

Type of product : Detergent, Biocidal products (e.g. Disinfectants, pest control)

Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use

Use of the substance/mixture : Cleaning and disinfection of floors and surfaces

1.2.2. Uses advised against

Restrictions on use : Cleaning of tools and transport / processing / storage surfaces in direct contact with

foodstuffs

1.3. Details of the supplier of the safety data sheet

Manufacturer

SODEL

190 rue René Barthélémy

FR- 14100 LISIEUX

FRANCE

T +33(0)2 31 31 10 50 - F +33(0)2 31 31 80 60

info@sodel-sa.eu - www.sodel-sa.eu

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Full text of H- and EUH-statements: see section 16

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2

H315
Serious eye damage/eye irritation, Category 1

H318
Hazardous to the aquatic environment — Acute Hazard, Category 1

H400
Hazardous to the aquatic environment — Chronic Hazard, Category 3

H412

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Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05 GHS09

Signal word (CLP) : Danger

Contains : Alcohols, C10, ethoxylated (>5-15 EO), didecyldimethylammonium chloride

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P280 - Wear protective gloves, eye protection. P302+P352 - IF ON SKIN: Wash with plenty of water.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

doctor, a POISON CENTER.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P391 - Collect spillage.

P501 - Dispose of contents and container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH208 - Contains citral(5392-40-5), TERPINOLENE(586-62-9), CITRONELLOL(106-22-

9), d-Limonene(5989-27-5), HEXYL CINNAMAL(101-86-0). May produce an allergic

reaction.

2.3. Other hazards

Component		
Alcohols, C9-11, ethoxylated (26183-52-8)	PBT: not relevant – no registration required vPvB: not relevant – no registration required	
didecyldimethylammonium chloride (7173-51-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohols, C9-11, ethoxylated	CAS-No.: 26183-52-8	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
didecyldimethylammonium chloride (Active substance (Biocide))	CAS-No.: 7173-51-5 EC-No.: 230-525-2 EC Index-No.: 612-131-00-6 REACH-no: 01-2119945987- 15	≥1-<5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
citral	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829- 23	≥ 0.1 – < 1	Skin Irrit. 2, H315 Skin Sens. 1, H317
TERPINOLENE	CAS-No.: 586-62-9 EC-No.: 209-578-0	≥ 0.1 – < 1	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CITRONELLOL	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995- 23	≥ 0.1 – < 1	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1B, H317
d-Limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7 REACH-no: 01-2119529223- 47	≥ 0.1 – < 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXYL CINNAMAL	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092- 50	≥ 0.1 – < 1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
ethyl acetate substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : As a general rule, in case of doubt or if symptoms persist, always call a doctor. Never give

anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. Rinse mouth. Do not induce vomiting.

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

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable

Hazardous decomposition products in case of fire : Toxic fumes may be released. Do not breathe in smoke.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry into storm water systems or watercourses.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Cover spill with non combustible material, e.g.: sand, earth, vermiculite.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : 5-35 °C

Storage area : Store away from heat.

Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

8.1.1 National occupational exposure and biological	5.1.1 National occupational exposure and biological limit values		
CAMPHOR (76-22-2)			
United Kingdom - Occupational Exposure Limits			
Local name	Bornan-2-one		
WEL TWA (OEL TWA) [1]	13 mg/m³		
WEL TWA (OEL TWA) [2]	2 ppm		
WEL STEL (OEL STEL)	19 mg/m³		
WEL STEL (OEL STEL) [ppm]	3 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
ethyl acetate (141-78-6)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Ethyl acetate		
IOEL TWA	734 mg/m³		
IOEL STEL	1486 mg/m³		
IOEL STEL [ppm]	400 ppm		
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164		
United Kingdom - Occupational Exposure Limits			
Local name	Ethyl acetate		
WEL TWA (OEL TWA) [1]	734 mg/m³		
WEL TWA (OEL TWA) [2]	200 ppm		
WEL STEL (OEL STEL)	1468 mg/m³		
WEL STEL (OEL STEL) [ppm]	400 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
Ethanol (64-17-5)			
United Kingdom - Occupational Exposure Limits			
Local name	Ethanol		
WEL TWA (OEL TWA) [1]	1920 mg/m³		
WEL TWA (OEL TWA) [2]	1000 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Avoid contact with eyes. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses		With side shields	EN 166

8.2.2.2. Skin protection

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent). Gloves must be selected according to the application and duration of use at the workstation

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves					EN 374

Other skin protection

Materials for protective clothing:

Avoid contact with skin. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. Protective clothing is not mandatory, but if your protocol requires it, use suitable chemical protective clothing

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. You must check the condition of the protections before each use. Used at the recommended dosage dose on the label, the product is not classified and does not require the use of PPE. The solution remains a chemical to be handled with care.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Colorless to yellow.

Appearance : Clear.

Odour : Synthetic scent. lemon.

Odour threshold Not available Melting point Not applicable Freezing point : Not available **Boiling point** : Not available Flammability : Not applicable **Explosive limits** : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available : > 90 °C Flash point : Not available Auto-ignition temperature Decomposition temperature : Not available рΗ : 6.5 – 7.5 pH solution : 6.5 - 7.5 (0.5%)Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available Density : 0.99 - 0.994 g/ml Relative density : Not available : Not available Relative vapour density at 20 °C : Not applicable Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state Particle agglomeration state : Not applicable

9.2. Other information

Particle dustiness

Particle specific surface area

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 9.7 % (EU Directive 2010/75)

: Not applicable

: Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Acute toxicity (inhalation)	: Not classified	
citral (5392-40-5)		
LD50 oral rat	≈ 6800 mg/kg bodyweight Animal: rat	
LD50 oral	4960 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat	
LD50 dermal	2250 mg/kg bodyweight	
TERPINOLENE (586-62-9)		
LD50 dermal rabbit	> 4300 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
CITRONELLOL (106-22-9)		
LD50 oral	3450 mg/kg bodyweight	
LD50 dermal	2650 mg/kg bodyweight	
d-Limonene (5989-27-5)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
LD50 oral	4400 mg/kg bodyweight	
LD50 dermal	> 2000 mg/kg bodyweight	
HEXYL CINNAMAL (101-86-0)		
LD50 oral	> 2450 mg/kg bodyweight	
LD50 dermal	> 3000 mg/kg bodyweight	
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l	
ethyl acetate (141-78-6)		
LD50 oral	5620 mg/kg bodyweight	
LD50 dermal rabbit	> 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male	
LD50 dermal	> 18000 mg/kg bodyweight	
LC50 Inhalation - Rat (Dust/Mist)	57700 mg/l	
didecyldimethylammonium chloride (7173-51-5)		
LD50 oral rat	329 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 oral	329 mg/kg bodyweight	
LD50 dermal rat	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal	

Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

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didecyldimethylammonium chloride (7173-51-5)			
LD50 dermal	3342 mg/kg bodyweight		
LC50 Inhalation - Rat (Dust/Mist)	70 mg/l		
Skin corrosion/irritation	: Causes skin irritation. pH: 6.5 – 7.5		
Serious eye damage/irritation	: Causes serious eye damage. pH: 6.5 – 7.5		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified		
citral (5392-40-5)	. Not classified		
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)		
Reproductive toxicity	: Not classified		
TERPINOLENE (586-62-9)			
NOAEL (animal/male, F0/P)	294.6 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)		
NOAEL (animal/female, F0/P)	161.5 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)		
STOT-single exposure	: Not classified		
ethyl acetate (141-78-6)			
STOT-single exposure	May cause drowsiness or dizziness.		
STOT-repeated exposure	: Not classified		
citral (5392-40-5)			
LOAEC (inhalation, rat, gas, 90 days)	68 ppm Animal: rat, Animal sex: female		
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)		
NOAEC (inhalation, rat, gas, 90 days)	34 ppm Animal: rat, Animal sex: female		
NOAEL (subchronic, oral, animal/male, 90 days)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)		
CITRONELLOL (106-22-9)			
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:Specifications for the Conduct of Studies to Evaluate the Toxic and Carcinogenic Potential of Chemical, Biological, and Physical Agents in Laboratory Animals for the National Toxicology Program (NTP)		
ethyl acetate (141-78-6)			
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)		
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)		
Aspiration hazard	: Not classified		

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

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

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

: Harmful to aquatic life with long lasting effects.

Alcohols, C9-11, ethoxylated (26183-52-8)	
EC50 - Crustacea [1]	15 mg/l (OECD 202)
EC50 72h - Algae [1]	19.6 mg/l (OECD 201)
citral (5392-40-5)	
LC50 - Fish [1]	4.1 mg/l
EC50 - Crustacea [1]	6.8 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	7 mg/l waterflea
EC50 - Other aquatic organisms [2]	5 mg/l
EC50 72h - Algae [1]	103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
TERPINOLENE (586-62-9)	
LC50 - Fish [1]	0.805 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.634 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.692 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.302 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
CITRONELLOL (106-22-9)	
LC50 - Fish [1]	10 mg/l
EC50 - Crustacea [1]	17.48 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	17.48 mg/l waterflea
EC50 - Other aquatic organisms [2]	2.38 mg/l
EC50 72h - Algae [1]	2.4 mg/l Test organisms (species):
d-Limonene (5989-27-5)	
LC50 - Fish [1]	0.72 mg/l
EC50 - Crustacea [1]	0.36 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	0.36 mg/l waterflea
EC50 72h - Algae [1]	≈ 8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.115 mg/l Test organisms (species): other:For freshwater invertebrates, species frequently include Daphnia magna or Daphnia pulex. Duration: '16 d'
HEXYL CINNAMAL (101-86-0)	
LC50 - Fish [1]	1.7 mg/l
EC50 - Other aquatic organisms [2]	> 0.32 mg/l

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ethyl acetate (141-78-6)		
LC50 - Fish [1]	230 mg/l	
EC50 - Other aquatic organisms [1]	717 mg/l waterflea	
EC50 - Other aquatic organisms [2]	3300 mg/l	
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
didecyldimethylammonium chloride (7173-51-5)		
LC50 - Fish [1]	0.49 mg/l	
LC50 - Fish [2]	0.49 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	0.057 mg/l Test organisms (species): Daphnia magna	
EC50 - Crustacea [2]	0.029 mg/l Test organisms (species): Daphnia magna	
EC50 - Other aquatic organisms [1]	0.057 mg/l waterflea	
EC50 - Other aquatic organisms [2]	0.156 mg/l	
LOEC (chronic)	0.047 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.021 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

12.2. Persistence and degradability

DBO CITRON VERT - Dose 20 ml		
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.	
Alcohols, C9-11, ethoxylated (26183-52-8)		
Persistence and degradability Not established.		
didecyldimethylammonium chloride (7173-51-5)		
Biodegradation > 70 % (Activated Sludge) (OECD 301 D)		

12.3. Bioaccumulative potential

Alcohols, C9-11, ethoxylated (26183-52-8)		
Bioaccumulative potential	Not established.	
citral (5392-40-5)		
Partition coefficient n-octanol/water (Log Pow)	2.8	
CITRONELLOL (106-22-9)		
Partition coefficient n-octanol/water (Log Pow)	3.1	
d-Limonene (5989-27-5)		
Partition coefficient n-octanol/water (Log Pow)	4.38	
HEXYL CINNAMAL (101-86-0)		
Partition coefficient n-octanol/water (Log Pow)	5.3	
ethyl acetate (141-78-6)		
Partition coefficient n-octanol/water (Log Pow)	0.7	

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didecyldimethylammonium chloride (7173-51-5)	
Partition coefficient n-octanol/water (Log Pow)	0.4

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Alcohols, C9-11, ethoxylated (26183-52-8)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
didecyldimethylammonium chloride (7173-51-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : Empty container completely. Keep label(s) on container. Prevent entry into storm water systems or watercourses. Avoid release to the environment. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)	Environmentally hazardous substance, liquid, n.o.s. (didecyldimethylammonium chloride)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride)
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (didecyldimethylammonium chloride), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (didecyldimethylammonium chloride), 9, III

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ADR	IMDG	IATA	ADN	RID	
14.3. Transport hazard o	14.3. Transport hazard class(es)				
9	9	9	9	9	

14.4. Packing group	14.4. Packing group				
III	III	III	III	III	
14.5. Environmental hazards					
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	
No supplementary information available					

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code (ADR) : EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : LP01, P001 Special packing provisions (IMDG) : PP1 : IBC03 IBC packing instructions (IMDG) : T4 Tank instructions (IMDG) Tank special provisions (IMDG) : TP1, TP29 : F-A EmS-No. (Fire) : S-F EmS-No. (Spillage) Stowage category (IMDG) : A

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Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

 Special packing provisions (RID)
 : PP1

 Mixed packing provisions (RID)
 : MP19

 Portable tank and bulk container instructions (RID)
 : T4

Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals: Didecyldimethylammonium chloride (7173-51-5)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : 9.7 % (EU Directive 2010/75)

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Allergenic fragrances > 0,01%:

CITRAL
CITRONELLOL
LIMONENE
HEXYL CINNAMAL
GERANIOL
LINALOOL
ALPHA-ISOMETHYL IONONE

Detergent Regulation (648/2004/EC): Labelling of contents:		
Component	%	
non-ionic surfactants	5-15%	
disinfectants		
perfumes		
CITRAL		
CITRONELLOL		
LIMONENE		
HEXYL CINNAMAL		
GERANIOL		
LINALOOL		
ALPHA-ISOMETHYL IONONE		

Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

This product contains biocidal products

Type of product (Biocide) : 2 - Disinfectants and algaecides not intended for direct application to humans or animals

Authorisation number

Contains : Ethanol (2.88 %); didecyldimethylammonium chloride (2.62 %)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	

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Abbreviations and acronyms:		
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Other information

: Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains citral(5392-40-5), TERPINOLENE(586-62-9), CITRONELLOL(106-22-9), d-Limonene(5989-27-5), HEXYL CINNAMAL(101-86-0). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H400	Very 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.	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.