



This SDS is for information only.

Titan Divosan QC VT50

Revision: 2021-09-06 First release : 2015-12-14 Version: 01.0

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

1.1 Product identifier Trade name: Titan Divosan QC VT50

1.2 Relevant identified uses of the substance or mixture and uses advised against Surface disinfectant. Product use:

Uses advised against:

For professional and industrial use only. Uses other than those identified are not recommended.

1.3 Details of the supplier of the safety data sheet Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Kimya Sanayi ve Ticaret A.Ş İçerenköy Mah. Bahçelerarası Sk. No: 43, 34752, Ataşehir, İstanbul, Türkiye Tel: 0216 578 64 00, Faks: 0216 578 64 01

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible) Ulusal Zehir Danışma Merkezi (UZEM): 114 Acil Sağlık Hizmetleri: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains didecyldimethylammonium chloride (Didecyldimonium Chloride).

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

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

Precautionary statements:

P280 - Wear eye or face protection.

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 POISON CENTRE, doctor or physician.

P273 - Avoid release to the environment.

P391 - Collect spillage.

2.3 Other hazards

The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII. No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
didecyldimethylammonium chloride	7173-51-5	230-525-2	Acute Tox. 4 (H302)	3-10
			Skin Corr. 1B (H314)	
			Aquatic Acute 1 (H400)	
			Aquatic Chronic 2 (H411)	

[4] Polymer.

Workplace exposure limit(s), if available, are listed in subsection 8.1. For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measur	res
Inhalation:	Get medical attention or advice if you feel unwell.
Skin contact:	If skin irritation occurs: Get medical advice or attention. Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of lukewarm, gently flowing water.
Eye contact:	Immediately call a POISON CENTRE, doctor or physician. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately rinse eyes cautiously with lukewarm water for several minutes.
Ingestion:	Get medical attention or advice if you feel unwell. Immediately drink 1 glass of water. Rinse mouth.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and	l effects, both acute and delayed
Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Causes irritation

Skin contact:	Causes irritation.
Eye contact:	Causes severe or permanent damage.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Dry powder. Carbon dioxide. Fight larger fires with water spray jet or alcohol-resistant foam. Water spray jet.

5.2 Special hazards arising from the substance or mixture No special hazards known.

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5.3 Advice for firefighters As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original packaging. Store in a closed container. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the <u>undiluted</u> product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: Appropriate organisational controls:	If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment Eye / face protection: Hand protection: Body protection: Respiratory protection:	Safety glasses or goggles (EN 166). Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Suggested gloves for protection against splashes: In consultation with the supplier of protective gloves a different type providing similar protection may be chosen. Penetration time: ≥ 480 min Penetration time: ≥ 30 min Material thickness: ≥ 0.7 mm Material thickness: ≥ 0.4 mm Material: butyl rubber Material: nitrile rubber No special requirements under normal use conditions. No special requirements under normal use conditions.
Environmental exposure controls:	Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (% w/w): 2

Appropriate engineering controls: Appropriate organisational controls:	Provide a good standard of general ventilation. Employees and/or livestock should not be present in the treated facility during fogging.
Personal protective equipment	
Eye / face protection:	Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).
Hand protection:	Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection:	No special requirements under normal use conditions
Respiratory protection:	Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. If exposure to liquid particles cannot be avoided use: self-contained or compressed air breathing apparatus (EN 137 / EN 138)

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Environmental exposure controls:

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No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Information in this section refers to the product, unless it is specifically stated that substance data is listed

Physical State: Liquid Colour: Clear , Colourless Odour: Product specific Odour threshold: Not applicable pH: 5.5-8 (neat) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product

Substance data, boiling point			
Ingredient(s)	Value	Method	Atmospheric pressure
	(°C)		(hPa)
didecyldimethylammonium chloride	110		

Flammability (liquid): Not determined. Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower and upper explosion limit/flammability limit (%) Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
didecyldimethylammonium chloride	No data available		

Vapour density: Not determined Relative density: ≈ 1.00 (20 °C) Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
didecyldimethylammonium chloride	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined Decomposition temperature: Not applicable. Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising.

9.2 Other information Surface tension (N/m): Not determined Corrosion to metals: Not corrosive

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

Not relevant to classification of this product

Method / remark

Method / remark

Method / remark

Method / remark

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10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

Substance data, where relevant and available, are listed below:.

Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride	LD 50	238	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride		No data available			

Acute inhalative toxicity	
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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride		No data			
		available			

Irritation and corrosivity

Skin irritation and corrosivity								
Ingredient(s)	Result	Species	Method	Exposure time				
didecyldimethylammonium chloride	Corrosive	Rabbit	OECD 404 (EU B.4)					

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
didecyldimethylammonium chloride	Severe damage			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
didecyldimethylammonium chloride	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
didecyldimethylammonium chloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
		-	Buehler test	

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Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
didecyldimethylammonium chloride	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
didecyldimethylammonium chloride	No evidence of genotoxicity, negative	OECD 471 (EU	No data available	
	test results	B.12/13) OECD		
		473 OECD 476		

Carcinogenicity

Ingredient(s)	Effect
didecyldimethylammonium chloride	No data available

Toxicity for reproduction

Ingredient(s) Endp	point Specific effect	Value Species (mg/kg bw/d)	Method	Exposure time	Remarks and other effects reported
didecyldimethylammoni um chloride		No data available			

Repeated dose toxicity

Sub-acute of sub-chronic oral toxicity						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
didecyldimethylammonium chloride		No data				
		available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Exposure time (days)	Specific effects and organs affected
didecyldimethylammonium chloride		No data available			

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
didecyldimethylammonium chloride		No data				
		available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
didecyldimethylammoni			No data					
um chloride			available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
didecyldimethylammonium chloride	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
didecyldimethylammonium chloride	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

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Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride	LC 50	0.97	Brachydanio rerio	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride	EC 50	0.053	Daphnia	OECD 202 (EU C.2)	48
			magna Straus		1

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride	EC 50	0.053	Pseudokirchner	OECD 201 (EU C.3)	72
			iella		
			subcapitata		

Aquatic short-term toxicity - marine species					
Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (days)
didecyldimethylammonium chloride		No data			
		available			

Impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value	Inoculum	Method	Exposure
		(mg/l)			time
didecyldimethylammonium chloride		No data			
		available			

Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
didecyldimethylammonium chloride		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
didecyldimethylammonium chloride	NOEC	> 0.01-0.1	Daphnia	OECD 211	21 day(s)	
			magna			

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
didecyldimethylammonium chloride		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
didecyldimethylammonium chloride		No data				
		available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
didecyldimethylammonium chloride		No data				
		available				

Terrestrial toxicity - birds, if available:

In gradient(a)	Endmaint	Endnaint Value Chasia	Chaolog	Species Method	Exposure Effects observ	Effects cheerwood
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed

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			time (days)	
didecyldimethylammonium chloride	No data			
	available			

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
didecyldimethylammonium chloride		No data				
		available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
didecyldimethylammonium chloride		No data available				

12.2 Persistence and degradability

Abiotic degradation

ribiolie degradation photodegradation in all, in a									
Ingredient(s)	Half-life time	Method	Evaluation	Remark					
didecyldimethylammonium chloride	No data available								

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
didecyldimethylammonium chloride	No data available			

Abiotic degradation - other processes, if available:

Tiblotto dogradation oth								
Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark			
didecyldimethylammoni um chloride		No data available						

Biodegradation

Ready biodegradability - aerobic conditions					
Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
didecyldimethylammonium chloride		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
didecyldimethylammonium chloride					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
didecyldimethylammonium chloride					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)									
Ingredient(s) Value Method Evaluation Remark									
didecyldimethylammonium chloride	No data available								

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
didecyldimethylammoni	2.1		Method not given	No bioaccumulation expected	
um chloride					

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
didecyldimethylammonium chloride	No data available				

12.5 Other adverse effects

No other adverse effects known.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods	The concentrated contents or contaminated packaging should be disposed of by a certified handler
Waste from residues / unused	or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging
products:	material is suitable for energy recovery or recycling in line with local legislation.
European Waste Catalogue:	16 03 05* - organic wastes containing dangerous substances.
Empty packaging Recommendation: Suitable cleaning agents:	Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

SECTION 14: Transport information



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR) 14.1 UN number: 3082 14.2 UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (didecyldimethylammoniumchloride) Environmentally hazardous substance, liquid, n.o.s. (didecyldimethylammoniumchloride) 14.3 Transport hazard class(es): Transport hazard class (and subsidiary risks): 9 14.4 Packing group: III 14.5 Environmental hazards:
 Environmentally hazardous: Yes Marine pollutant: Yes 14.6 Special precautions for user: None known. 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.
Other relevant information: ADR Classification code: M6 Tunnel restriction code: - Hazard identification number: 90 IMO/IMDG EmS: F-A, S-F
The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082
SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations • 11 Aralık 2013 tarihli, 28848 Sayılı, Maddelerin Ve Karışımların Sınıflandırılması, Etiketlenmesi Ve Ambalajlanması Hakkında Yönetmelik.
Ingredients according to EC Detergents Regulation 648/2004

Ingredients according to EC Detergents Regulation 648/2004 disinfectants

< 5 %

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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Güvenlik Bilgi Formu Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmelik (R.G. 13.12.2014-29204)'e Göre düzenlenmiştir.

Edited by: Tuğçe KÜÇÜKKUL / Sertifikalı GBF Hazırlayıcısı Sertifika No ve tarihi: GBF/ 01.51.12/ 09.03.2021 Geçerlilik Tarihi 09.03.2024 Diversey Kimya Sanayi ve Ticaret A.Ş İçerenköy Mah. Bahçelerarası Sk. No: 43, 34752, Ataşehir, İstanbul, Türkiye Tel: 0216 578 64 00, Faks: 0216 578 64 01

Full text of the H and EUH phrases mentioned in section 3:

• H302 - Harmful if swallowed.

• H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

AISE - The international Association for Soaps, Detergents and Maintenance Products
 DNEL - Derived No Effect Limit

- EUH CLP Specific hazard statement

- PBT Persistent, Bioaccumulative and Toxic
 PNEC Predicted No Effect Concentration
 REACH number REACH registration number, without supplier specific part
 vPvB very Persistent and very Bioaccumulative
- ATE Acute Toxicity Estimate

End of Safety Data Sheet

Product Code:	70003442, 7509493, 7510596
Master Version:	01.0
Formula Code:	FM003351 (FAHSS07W22)