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	SDS Number: R1901885
SUMA SAN CONC D4A-CONC 9306934	Version: 1.1

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SUMA SAN CONC D4A-CONC

Product code : 9306934
Company : Diversey Australia Pty Ltd
1612 Centre Road, Springvale, VIC 3171
Australia

E-mail address : HazardCommunication@solenis.com

Telephone : 1800 647 779 (toll free)

Product information:
Email: aucustserv@solenis.com
Website: products.solenis.com/en-AU

Emergency telephone : Seek medical advice (show the label or safety data sheet where possible), Call 1800 033 111 (24hrs)

Website : Diversey.com

Use of the Substance/Mixture : Surface disinfectant, Laundry disinfection, Kitchen surface disinfectant
for food contact surface disinfection, for general surface sanitization, for general surface disinfection

Recommended restrictions on use : For professional use only

SECTION 2. HAZARDS IDENTIFICATION

Classification for the undiluted product

GHS Classification

GHS label elements

Hazard pictograms :



Signal Word :

Danger

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Hazard Statements : H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
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 POISON CENTER/ doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Other hazards which do not result in classification

None known.

Classification for the diluted product 0.500 %

GHS Classification

Short-term (acute) aquatic hazard : Category 3

GHS Label elements, including precautionary statements

Hazard Statements : H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**
P273 Avoid release to the environment.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
didecyldimethylammonium chloride	7173-51-5	>= 5 -< 10

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C9-11 alcohol polyethoxylate, > 5 - ≤ 10 EO	68439-46-3	≥ 1 -< 2.5
C9-11 alcohols, ethoxylated (8EO)	68439-46-3	≥ 1 -< 2.5
propan-2-ol	67-63-0	≥ 1 -< 10

SECTION 4. FIRST AID MEASURES

General advice	: Do not leave the victim unattended.
If inhaled	: If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
In case of eye contact	: Remove contact lenses. If eye irritation persists, consult a specialist. Protect unharmed eye.
If swallowed	: Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician or Poison Control Center immediately.
Most important symptoms and effects, both acute and delayed	: No symptoms known or expected. Causes skin irritation. Causes serious eye damage.
Notes to physician	: No hazards which require special first aid measures.

SECTION 5. FIRE-FIGHTING MEASURES

Hazardous combustion products	: toxic fumes Carbon monoxide Carbon dioxide (CO ₂)
Hazchem Code	: •3Z

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage.

SECTION 7. HANDLING AND STORAGE

Hygiene measures : General industrial hygiene practice.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propan-2-ol	67-63-0	TWA	400 ppm 983 mg/m ³	AU OEL
		STEL	500 ppm 1,230 mg/m ³	AU OEL

Undiluted product:

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

Protective measures : No special requirements under normal use conditions

Personal protective equipment

Respiratory protection : No special requirements under normal use conditions.

Hand protection

Remarks : No special requirements under normal use conditions

Protective measures : No special requirements under normal use conditions

Eye protection : Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur

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when handling the product (EN 16321)

Skin and body protection : Wear resistant gloves (consult your safety equipment supplier).
Safety shoes

Diluted product:

Maximum recommended use concentration (% w/w): 0.500 %

Appropriate engineering controls : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : No special requirements under normal use conditions

Hand protection

Remarks : No special requirements under normal use conditions

Skin and body protection : Wear as appropriate:
Safety shoes
Wear resistant gloves (consult your safety equipment supplier).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Undiluted product:

Appearance : liquid

Color : purple, dark

Odor : characteristic

Odor Threshold : No data available

pH : <= 2

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Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point :

Evaporation rate : No data available

Flammability (solid, gas) : No data available, Not applicable to liquids

Flammability (liquids) : Not flammable.

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.0000 g/cm³

Solubility(ies)

 Water solubility : completely soluble, Fully miscible

 Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

 Viscosity, dynamic : No data available

 Viscosity, kinematic : No data available

Oxidizing properties : No data available

Surface tension : Not relevant for classification of this product.

Particle characteristics

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Particle size : No data available

Particle Size Distribution : No data available

Diluted product:

pH : 4.2

Flash point : No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.
Exposure to moisture.

Incompatible materials : Acids
Aldehydes
alkalis
aluminum
Amines
Copper
Copper alloys
Ethylene oxide
halogenated hydrocarbons
halogens
isocyanates
Strong bases
Strong oxidizing agents
Do not use with aluminum equipment at temperatures above 49C or 120 degrees F.

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

didecyldimethylammonium chloride:

Acute oral toxicity : LD50 (Rat): 329 mg/kg
Method: OECD Test Guideline 401
GLP: yes

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Acute dermal toxicity : LD50 (Rabbit): 3,342 mg/kg

C9-11 alcohol polyethoxylate, > 5 - ≤ 10 EO:

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

C9-11 alcohols, ethoxylated (8EO):

Acute oral toxicity : LD50 (Rat): 1,400 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

propan-2-ol:

Acute oral toxicity : LD50 (Rat): 5.84 g/kg

Acute inhalation toxicity : LC 50 (Rat): 16000 ppm
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): 12,800 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Method : Weight of evidence
Result : Skin irritation

Components:

didecyldimethylammonium chloride:

Method : OECD Test Guideline 404
Result : Corrosive to skin
GLP : yes

C9-11 alcohol polyethoxylate, > 5 - ≤ 10 EO:

Result : Mild skin irritant

C9-11 alcohols, ethoxylated (8EO):

Species : Rabbit
Result : No skin irritation

propan-2-ol:

Result : Slightly irritating to skin

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Serious eye damage/eye irritation

Causes serious eye damage.

Components:

didecyldimethylammonium chloride:

Result : Corrosive to eyes

C9-11 alcohol polyethoxylate, > 5 - ≤ 10 EO:

Result : Corrosive to eyes

C9-11 alcohols, ethoxylated (8EO):

Species : Rabbit

Result : Risk of serious damage to eyes.

propan-2-ol:

Result : Irritating to eyes

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Components:

didecyldimethylammonium chloride:

Test Type : Buehler Test

Species : Guinea pig

Method : OECD Test Guideline 406

C9-11 alcohols, ethoxylated (8EO):

Species : Guinea pig

Result : Does not cause skin sensitization.

Chronic toxicity

Germ cell mutagenicity

Not classified due to lack of data.

Components:

didecyldimethylammonium chloride:

Genotoxicity in vitro : Test Type: Ames test

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Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

C9-11 alcohols, ethoxylated (8EO):

Genotoxicity in vitro : Result: In vitro tests did not show mutagenic effects

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

Components:

C9-11 alcohols, ethoxylated (8EO):

Effects on fetal development : Species: Rat
Remarks: No test guideline followed
No significant adverse effects were reported

STOT-single exposure

Not classified due to lack of data.

Components:

propan-2-ol:

Assessment : May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

C9-11 alcohols, ethoxylated (8EO):

NOAEL : mg/kg bw/day, 50
Application Route : Oral

NOAEL : mg/kg bw/day, 80
Application Route : Dermal
Method : OECD Test Guideline 411

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Aspiration toxicity

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

didecyldimethylammonium chloride:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.2 - 0.5 mg/l
Exposure time: 96 h
Test Type: semi-static test

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.328 - 0.511 mg/l
Exposure time: 96 h
Test Type: flow-through test

LC50 (Danio rerio (zebra fish)): 0.97 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 0.057 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.062 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.021 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

Toxicity to microorganisms : EC10 (Pseudomonas putida): 0.13 mg/l
Exposure time: 16 h

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Test Type: Growth inhibition
Method: DIN 38412

C9-11 alcohol polyethoxylate, > 5 - ≤ 10 EO:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8.5 - 17 mg/l
Exposure time: 96 h
Test Type: Renewal

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 - 8.5 mg/l
Exposure time: 48 h
Test Type: semi-static test

C9-11 alcohols, ethoxylated (8EO):

Toxicity to fish : LC50 (Fish): 5 - 7 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus (Water flea)): 5.3 mg/l
Exposure time: 48 h
Method: Tested according to Directive 92/69/EEC.

Toxicity to algae/aquatic plants : ErC50: 1.4 - 47 mg/l
Exposure time: 72 h
Method: Tested according to Directive 92/69/EEC.

Toxicity to fish (Chronic toxicity) : LC10: 8,983 mg/l
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : (Daphnia magna (Water flea)): 2,579 mg/l
Exposure time: 21 d

Toxicity to microorganisms : EC50 (Bacteria): > 140 mg/l
Method: No data available

propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 5,770 - 7,450 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 24 h
Test Type: static test

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Persistence and degradability

Components:

didecyldimethylammonium chloride:

Biodegradability : aerobic
 Result: Readily biodegradable.
 Biodegradation: 69 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301D
 GLP: yes

Biodegradation: 72 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

Biodegradation: 87 - 94 %
 Exposure time: 28 d
 Method: OECD Test Guideline 302B
 Remarks: This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

C9-11 alcohol polyethoxylate, > 5 - ≤ 10 EO:

Biodegradability : Result: Readily biodegradable.

C9-11 alcohols, ethoxylated (8EO):

Biodegradability : aerobic
 Result: Readily biodegradable.
 Biodegradation: 80 %

propan-2-ol:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Components:

didecyldimethylammonium chloride:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
 Bioconcentration factor (BCF): 81.00
 Exposure time: 46 d

C9-11 alcohols, ethoxylated (8EO):

Bioaccumulation : Bioconcentration factor (BCF): < 500
 Remarks: The substance has high potential for bioaccumulation.

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Partition coefficient: n-octanol/water : log Pow: 3.11 - 4.19

propan-2-ol:

Partition coefficient: n-octanol/water : log Pow: 0.05

Mobility in soil

Components:

C9-11 alcohols, ethoxylated (8EO):

Distribution among environmental compartments : Remarks: Highly mobile in soils

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN number : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (DIDECYLDIMETHYLAMMONIUMCHLORIDE)
Class : 9
Packing group : III

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUMCHLORIDE)
Class : 9
Packing group : III

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EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

Domestic regulation

ADG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUMCHLORIDE)
Class : 9
Packing group : III
Hazchem Code : .3Z
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (Poisons : Schedule 6
Standard) Instrument

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

The ingredients of this product are reported in the following inventories:

TW TCSI : On the inventory, or in compliance with the inventory
US TSCA : Product contains substance(s) not listed on TSCA inventory.
AU AIIC : On the inventory, or in compliance with the inventory
CA. DSL : This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.

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JP ENCS : Not in compliance with the inventory
 KR KECI : Not in compliance with the inventory
 PH PICCS : Not in compliance with the inventory
 CN IECSC : Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Date format : dd.mm.yyyy

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Full text of other abbreviations

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

AU OEL / TWA : Exposure standard - time weighted average

AU OEL / STEL : Exposure standard - short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LSPN - List of Hazardous Notified Substances (Chile); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation,

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Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to compile the Material Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

AU / EN