



A Solenis Company

Safety Data Sheet

TASKFORCE J-FILL

Revision: 2023-12-13

Version: 01.2

SECTION 1: Identification of the substance/mixture and supplier

1.1 Product identifier

Product name: TASKFORCE J-FILL

1.2 Recommended use and restrictions on use

Identified uses:

Commercial grade disinfectant

Restrictions of use:

Uses other than those identified are not recommended

1.3 Details of the supplier

DIVERSEY NEW ZEALAND LTD.

24 Bancroft Crescent, Glendene, Auckland, 0602, New Zealand

Telephone: 0800 803 615 (toll free)

Website: www.diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

Call 0800 243 622 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, Category 4

Acute toxicity, oral, Category 4

Skin sensitisation, Category 1

Skin corrosion, Category 1C

Acute aquatic toxicity, Category 1

Terrestrial vertebrates, Category 3

Serious eye damage, Category 1

2.2 Label elements



Signal word: Danger

Hazard statements:

H227 - Combustible liquid.

H314 - Causes severe skin burns and eye damage.

H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction.

H400 - Very toxic to aquatic life.

H433 - Harmful to terrestrial vertebrates.

Prevention statement(s):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing and eye or face protection.

Response statement(s):

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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 or 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 POISON CENTRE, doctor or physician.
 P321 - Specific treatment (see supplemental first aid instructions on this label).
 P363 - Wash contaminated clothing before reuse.
 P370 + P378 - In case of fire: Use chemical powder to extinguish.

Storage statement(s):

P403 + P235 - Store in a well-ventilated place. Keep cool.
 P405 - Store locked up.

Disposal statement(s):

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

2.4 Classification diluted product:

Recommended maximum concentration (% w/w): 4.8

Skin irritation, Category 3
 Acute aquatic toxicity, Category 2

2.5 Label elements diluted product**Hazard statements:**

H316 - Causes mild skin irritation.
 H401 - Toxic to aquatic life.

SECTION 3: Composition/information on ingredients**3.1 Substances / Mixtures**

Ingredient(s)	CAS#	EC number	Weight percent
Didecyldimethyl ammonium chloride	7173-51-5	230-525-2	3-10
n-alkyl dimethyl benzyl ammonium chloride	68424-85-1	270-325-2	3-10
2,2',2"-nitrilotriethanol	102-71-6	203-049-8	3-10
Alcohols, C12-14, ethoxylated	68439-50-9	500-213-3	3-10
ethanol	64-17-5	200-578-6	3-10
Propan-2-ol	67-63-0	200-661-7	1-3
citral	5392-40-5	226-394-6	1-3
d-limonene	5989-27-5	227-813-5	1-3
2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4	0.01-0.1
pin-2(3)-ene	80-56-8	201-291-9	< 0.01

Non-hazardous ingredients are the remainder and add up to 100%.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

SECTION 4: First aid measures**4.1 Description of first aid measures****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.

Skin contact:

Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

First aid facilities:

Shower and eyewash facilities should be considered in a workplace where necessary.

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4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	Causes severe burns. May cause an allergic skin reaction.
Eye contact:	Causes severe or permanent damage.
Ingestion:	Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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.

Poison Information Center: Call 0800 764 766 (0800 POISON)

SECTION 5: Firefighting measures**5.1 Extinguishing media**

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

5.4 Hazchem code

2X

2 - Fine water spray

X - Liquid-tight chemical protective clothing and breathing apparatus. Contain.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Turn off all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and 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).

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****Measures to prevent fire and explosions:**

Keep away from flames and hot surfaces. No smoking. Keep away from heat. Take precautionary measures against static discharges.

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. Keep away from food, drink and animal feeding stuffs. Handle and open container with care. Do not mix with other products unless advised 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. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a well-ventilated place. Store in a closed container. Keep only in original packaging. Keep from freezing. Keep cool. Keep away from heat and direct sunlight.

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

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8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)	Ceiling value(s)
2,2',2''-nitrotriethanol	5 mg/m ³		
ethanol	1000 ppm 1880 mg/m ³		
Propan-2-ol	400 ppm 983 mg/m ³	500 ppm 1230 mg/m ³	

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 undiluted product:

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

Appropriate engineering 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.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: Safety glasses or goggles (AS/NZS 1337.1). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

Hand protection: Chemical-resistant protective gloves (AS/NZS 2161.10). 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: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection: Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

Respiratory protection: 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 diluted product:

Recommended maximum concentration (% w/w): 4.8

Appropriate engineering controls: Use only in well ventilated areas.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions.

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions

Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Method / remark
Physical state: Liquid	
Colour: Clear , Dark , Green	
Odour: Product specific Perfumed	
Odour threshold: Not applicable	
pH: ≈ 8.5 (neat)	ISO 4316
Dilution pH: ≈ 8 (1%)	ISO 4316

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Melting point/freezing point (°C): Not determined
Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product

Flammability (liquid): Flammable.
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 applicable to liquids
Lower and upper explosion limit/flammability limit (%): Not determined
Vapour pressure: Not determined
Relative density: ≈ 1.01 (20 °C)
Relative vapour density: Not determined.
Particle characteristics: No data available.
Solubility in / Miscibility with water: Fully miscible
Partition coefficient: n-octanol/water No information available.

Not relevant to classification of this product

OECD 109 (EU A.3)
 Not relevant to classification of this product
 Not applicable to liquids.

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. Vapours may form explosive mixtures with air.
Oxidising properties: Not oxidising.

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

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

Take action to prevent static discharges.

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): 1300
 ATE - Dermal (mg/kg): >5000

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

Acute toxicity

Acute oral toxicity

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

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n-alkyl dimethyl benzyl ammonium chloride	LD ₅₀	304.5	Rat	
2,2',2''-nitrilotriethanol	LD ₅₀	> 2000	Rat	Method not given
Alcohols, C12-14, ethoxylated		No data available		
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)
Propan-2-ol	LD ₅₀	5840	Rat	OECD 401 (EU B.1)
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given
citral	LD ₅₀	> 2000		
1-Decanamine, N-decyl-N-methyl-	LD ₅₀	300-2000	Rat	OECD 423 (EU B.1 tris)
benzyl benzoate		No data available		
2-methylundecanal	LD ₅₀	> 5000	Rat	Method not given

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Didecyldimethyl ammonium chloride		No data available			
n-alkyl dimethyl benzyl ammonium chloride	LD ₅₀	3412	Rabbit	Method not given	
2,2',2''-nitrilotriethanol	LD ₅₀	> 2000	Rabbit	Method not given	
Alcohols, C12-14, ethoxylated		No data available			
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)	
Propan-2-ol	LD ₅₀	> 2000	Rabbit	Method not given	
d-limonene	LD ₅₀	> 5000	Rabbit	Method not given	
citral		No data available			
1-Decanamine, N-decyl-N-methyl-		No data available			
benzyl benzoate		No data available			
2-methylundecanal	LD ₅₀	> 5000	Rabbit	Method not given	24 hours

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Didecyldimethyl ammonium chloride		No data available			
n-alkyl dimethyl benzyl ammonium chloride		No data available			
2,2',2''-nitrilotriethanol		No data available			
Alcohols, C12-14, ethoxylated		No data available			
ethanol	LC ₅₀	> 1800	Rat	Non guideline test	4
Propan-2-ol	LC ₅₀	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6
d-limonene		No data available			
citral		No data available			
1-Decanamine, N-decyl-N-methyl-		No data available			
benzyl benzoate		No data available			
2-methylundecanal		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Didecyldimethyl ammonium chloride	Corrosive	Rabbit	OECD 404 (EU B.4)	
n-alkyl dimethyl benzyl ammonium chloride	Corrosive	Rabbit	Method not given	
2,2',2''-nitrilotriethanol	Mild irritant			
Alcohols, C12-14, ethoxylated	No data available			
ethanol	Not irritant	Rabbit	OECD 404 (EU B.4)	
Propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
d-limonene	Irritant	Rabbit	Method not given	
citral	No data available			
1-Decanamine, N-decyl-N-methyl-	No data available			

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benzyl benzoate	No data available			
2-methylundecanal	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Didecyl dimethyl ammonium chloride	Severe damage			
n-alkyl dimethyl benzyl ammonium chloride	Severe damage		Method not given	
2,2',2"-nitrilotriethanol	Not corrosive or irritant			
Alcohols, C12-14, ethoxylated	No data available			
ethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
Propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
d-limonene	No data available			
citral	No data available			
1-Decanamine, N-decyl-N-methyl-	No data available			
benzyl benzoate	No data available			
2-methylundecanal	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Didecyl dimethyl ammonium chloride	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			
2,2',2"-nitrilotriethanol	No data available			
Alcohols, C12-14, ethoxylated	No data available			
ethanol	No data available			
Propan-2-ol	No data available			
d-limonene	No data available			
citral	No data available			
1-Decanamine, N-decyl-N-methyl-	No data available			
benzyl benzoate	No data available			
2-methylundecanal	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Didecyl dimethyl ammonium chloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
n-alkyl dimethyl benzyl ammonium chloride	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
2,2',2"-nitrilotriethanol	Not sensitising			
Alcohols, C12-14, ethoxylated	No data available			
ethanol	Not sensitising			
Propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
d-limonene	Sensitising	Guinea pig	Method not given	
citral	No data available			
1-Decanamine, N-decyl-N-methyl-	No data available			
benzyl benzoate	No data available			
2-methylundecanal	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Didecyl dimethyl ammonium chloride	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			
2,2',2"-nitrilotriethanol	No data available			
Alcohols, C12-14, ethoxylated	No data available			
ethanol	No data available			
Propan-2-ol	No data available			
d-limonene	No data available			
citral	No data available			
1-Decanamine, N-decyl-N-methyl-	No data available			
benzyl benzoate	No data available			
2-methylundecanal	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
Didecyldimethyl ammonium chloride	No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476	No data available	
n-alkyl dimethyl benzyl ammonium chloride	No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13) OECD 476 OECD 473	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
2,2',2''-nitrilotriethanol	No data available		No data available	
Alcohols, C12-14, ethoxylated	No data available		No data available	
ethanol	No data available		No data available	
Propan-2-ol	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
d-limonene	No data available		No data available	
citral	No data available		No data available	
1-Decanamine, N-decyl-N-methyl-	No data available		No data available	
benzyl benzoate	No data available		No data available	
2-methylundecanal	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
Didecyldimethyl ammonium chloride	No data available
n-alkyl dimethyl benzyl ammonium chloride	No data available
2,2',2''-nitrilotriethanol	No data available
Alcohols, C12-14, ethoxylated	No data available
ethanol	No data available
Propan-2-ol	No evidence for carcinogenicity, negative test results
d-limonene	No data available
citral	No data available
1-Decanamine, N-decyl-N-methyl-	No data available
benzyl benzoate	No data available
2-methylundecanal	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
Didecyldimethyl ammonium chloride			No data available				
n-alkyl dimethyl benzyl ammonium chloride			No data available				
2,2',2''-nitrilotriethanol			No data available				
Alcohols, C12-14, ethoxylated			No data available				
ethanol			No data available				
Propan-2-ol			No data available				
d-limonene			No data available				
citral			No data available				
1-Decanamine, N-decyl-N-methyl-			No data available				
benzyl benzoate			No data available				
2-methylundecanal			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Didecyldimethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
2,2',2''-nitrilotriethanol		No data available				
Alcohols, C12-14, ethoxylated		No data available				
ethanol		No data available				

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Propan-2-ol		No data available				
d-limonene		No data available				
citral		No data available				
1-Decanamine, N-decyl-N-methyl-		No data available				
benzyl benzoate		No data available				
2-methylundecanal		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Didecylmethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
2,2',2"-nitrilotriethanol		No data available				
Alcohols, C12-14, ethoxylated		No data available				
ethanol		No data available				
Propan-2-ol		No data available				
d-limonene		No data available				
citral		No data available				
1-Decanamine, N-decyl-N-methyl-		No data available				
benzyl benzoate		No data available				
2-methylundecanal		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Didecylmethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
2,2',2"-nitrilotriethanol		No data available				
Alcohols, C12-14, ethoxylated		No data available				
ethanol		No data available				
Propan-2-ol		No data available				
d-limonene		No data available				
citral		No data available				
1-Decanamine, N-decyl-N-methyl-		No data available				
benzyl benzoate		No data available				
2-methylundecanal		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
Didecylmethyl ammonium chloride			No data available					
n-alkyl dimethyl benzyl ammonium chloride			No data available					
2,2',2"-nitrilotriethanol			No data available					
Alcohols, C12-14, ethoxylated			No data available					
ethanol			No data available					
Propan-2-ol			No data available					

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			available				
d-limonene			No data available				
citral			No data available				
1-Decanamine, N-decyl-N-methyl-benzyl benzoate			No data available				
2-methylundecanal			No data available				

STOT-single exposure

Ingredient(s)	Affected organ(s)
Didecyldimethyl ammonium chloride	No data available
n-alkyl dimethyl benzyl ammonium chloride	No data available
2,2',2"-nitrilotriethanol	No data available
Alcohols, C12-14, ethoxylated	No data available
ethanol	No data available
Propan-2-ol	Central nervous system
d-limonene	No data available
citral	No data available
1-Decanamine, N-decyl-N-methyl-benzyl benzoate	No data available
2-methylundecanal	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Didecyldimethyl ammonium chloride	No data available
n-alkyl dimethyl benzyl ammonium chloride	No data available
2,2',2"-nitrilotriethanol	No data available
Alcohols, C12-14, ethoxylated	No data available
ethanol	No data available
Propan-2-ol	No data available
d-limonene	No data available
citral	No data available
1-Decanamine, N-decyl-N-methyl-benzyl benzoate	No data available
2-methylundecanal	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.

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

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Didecyldimethyl ammonium chloride	LC ₅₀	0.97	<i>Brachydanio rerio</i>	OECD 203 (EU C.1)	96
n-alkyl dimethyl benzyl ammonium chloride	LC ₅₀	0.515	<i>Fish</i>	Method not given	96
2,2',2"-nitrilotriethanol	LC ₅₀	> 100	<i>Lepomis macrochirus</i>	Method not given	96
Alcohols, C12-14, ethoxylated		No data available			
ethanol	LC ₅₀	8150	<i>Alburnus alburnus</i>	Method not given	96
Propan-2-ol	LC ₅₀	> 100	<i>Pimephales promelas</i>	Method not given	48
d-limonene	LC ₅₀	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96

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citral		No data available			
1-Decanamine, N-decyl-N-methyl-		No data available			
benzyl benzoate	LC ₅₀	2.32	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
2-methylundecanal		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Didecylmethyl ammonium chloride	EC ₅₀	0.053	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
n-alkyl dimethyl benzyl ammonium chloride	EC ₅₀	0.016	<i>Daphnia</i>	Method not given	48
2,2',2"-nitrilotriethanol	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	Method not given	24
Alcohols, C12-14, ethoxylated		No data available			
ethanol	EC ₅₀	5012	<i>Daphnia magna Straus</i>	Method not given	48
Propan-2-ol	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	Method not given	48
d-limonene	EC ₅₀	0.36	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
citral		No data available			
1-Decanamine, N-decyl-N-methyl-		No data available			
benzyl benzoate	LC ₅₀	3.09	<i>Daphnia magna Straus</i>	OECD 202, static	48
2-methylundecanal		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Didecylmethyl ammonium chloride	EC ₅₀	0.053	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
n-alkyl dimethyl benzyl ammonium chloride	EC ₅₀	0.02	<i>Selenastrum capricornutum</i>	OECD 201 (EU C.3)	72
2,2',2"-nitrilotriethanol	EC ₅₀	> 100	<i>Desmodesmus subspicatus</i>	Method not given	72
Alcohols, C12-14, ethoxylated		No data available			
ethanol	EC ₅₀	675	<i>Scenedesmus quadricauda Not specified</i>	Method not given	72
Propan-2-ol	EC ₅₀	> 100	<i>Scenedesmus quadricauda</i>	Method not given	72
d-limonene	E _r C ₅₀	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
citral		No data available			
1-Decanamine, N-decyl-N-methyl-		No data available			
benzyl benzoate	EC ₅₀	0.475	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
2-methylundecanal		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Didecylmethyl ammonium chloride		No data available			
n-alkyl dimethyl benzyl ammonium chloride		No data available			
2,2',2"-nitrilotriethanol		No data available			
Alcohols, C12-14, ethoxylated		No data available			
ethanol		No data available			
Propan-2-ol		No data available			
d-limonene		No data available			

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		available		
citral		No data available		
1-Decanamine, N-decyl-N-methyl-		No data available		
benzyl benzoate		No data available		
2-methylundecanal		No data available		

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Didecylmethyl ammonium chloride		No data available			
n-alkyl dimethyl benzyl ammonium chloride	EC ₂₀	5	Activated sludge	OECD 209	0.5 hour(s)
2,2',2"-nitrilotriethanol		No data available			
Alcohols, C12-14, ethoxylated		No data available			
ethanol	EC ₀	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
Propan-2-ol	EC ₅₀	> 1000	Activated sludge	Method not given	
d-limonene		No data available			
citral		No data available			
1-Decanamine, N-decyl-N-methyl-		No data available			
benzyl benzoate		No data available			
2-methylundecanal		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Didecylmethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
2,2',2"-nitrilotriethanol		No data available				
Alcohols, C12-14, ethoxylated		No data available				
ethanol		No data available				
Propan-2-ol		No data available				
d-limonene		No data available				
citral		No data available				
1-Decanamine, N-decyl-N-methyl-		No data available				
benzyl benzoate		No data available				
2-methylundecanal		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Didecylmethyl ammonium chloride	NOEC	> 0.01-0.1	<i>Daphnia magna</i>	OECD 211	21 day(s)	
n-alkyl dimethyl benzyl ammonium chloride	NOEC	0.025	<i>Daphnia magna</i>	OECD 211	21 day(s)	
2,2',2"-nitrilotriethanol		No data available				
Alcohols, C12-14, ethoxylated		No data available				
ethanol		No data available				
Propan-2-ol		No data available				
d-limonene		No data available				

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		available				
citral		No data available				
1-Decanamine, N-decyl-N-methyl-		No data available				
benzyl benzoate		No data available				
2-methylundecanal		No data available				

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
Didecyldimethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
Propan-2-ol		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
Didecyldimethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
Propan-2-ol		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Didecyldimethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
Propan-2-ol		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
Didecyldimethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
Propan-2-ol		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Didecyldimethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
Propan-2-ol		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Didecyldimethyl ammonium chloride		No data available				
n-alkyl dimethyl benzyl ammonium chloride		No data available				
Propan-2-ol		No data available				

12.2 Persistence and degradability

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Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
Didecyldimethyl ammonium chloride	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			
Propan-2-ol	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
Didecyldimethyl ammonium chloride	No data available			
n-alkyl dimethyl benzyl ammonium chloride	No data available			
Propan-2-ol	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
Didecyldimethyl ammonium chloride		No data available			
n-alkyl dimethyl benzyl ammonium chloride		No data available			
Propan-2-ol		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
Didecyldimethyl ammonium chloride		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable
n-alkyl dimethyl benzyl ammonium chloride		Oxygen depletion	> 60%	Read across	Readily biodegradable
2,2',2''-nitrilotriethanol	Activated sludge, aerobe			OECD 301E	Readily biodegradable
Alcohols, C12-14, ethoxylated				OECD 301F	Readily biodegradable
ethanol	Activated sludge, aerobe	Oxygen depletion	> 60% in 10 day(s)	OECD 301B	Readily biodegradable
Propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
citral				OECD 301F	Readily biodegradable
1-Decanamine, N-decyl-N-methyl-				OECD 301B	Not readily biodegradable.
benzyl benzoate				OECD 301F	Readily biodegradable
2-methylundecanal				OECD 301F	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
Didecyldimethyl ammonium chloride					No data available
n-alkyl dimethyl benzyl ammonium chloride					No data available
Propan-2-ol					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT ₅₀	Method	Evaluation
Didecyldimethyl ammonium chloride					No data available
n-alkyl dimethyl benzyl ammonium chloride					No data available
Propan-2-ol					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
Didecyldimethyl ammonium chloride	No data available			
n-alkyl dimethyl benzyl ammonium chloride	0.004	Method not given	No bioaccumulation expected	at 20 °C
2,2',2''-nitrilotriethanol	-1.75		No bioaccumulation expected	
Alcohols, C12-14, ethoxylated	No data available			
ethanol	-0.31	Weight of evidence	No bioaccumulation expected	
Propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
d-limonene	No data available		High potential for bioaccumulation	
citral	No data available			
1-Decanamine, N-decyl-N-methyl-	No data available			
benzyl benzoate	No data available			

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2-methylundecanal	No data available		
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Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Didecyldimethyl ammonium chloride	2.1		Method not given	No bioaccumulation expected	
n-alkyl dimethyl benzyl ammonium chloride	79	<i>Lepomis macrochirus</i>		Low potential for bioaccumulation	
2,2',2"-nitriilotriethanol	No data available			Low potential for bioaccumulation	
Alcohols, C12-14, ethoxylated	No data available				
ethanol	0.5		Weight of evidence	No bioaccumulation expected	
Propan-2-ol	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
citral	No data available				
1-Decanamine, N-decyl-N-methyl-	No data available				
benzyl benzoate	No data available				
2-methylundecanal	No data available				

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
Didecyldimethyl ammonium chloride	No data available				
n-alkyl dimethyl benzyl ammonium chloride	No data available				
2,2',2"-nitriilotriethanol	No data available				
Alcohols, C12-14, ethoxylated	No data available				
ethanol	No data available				
Propan-2-ol	No data available				Potential for mobility in soil, soluble in water
d-limonene	No data available				High potential for mobility in soil
citral	No data available				
1-Decanamine, N-decyl-N-methyl-	No data available				
benzyl benzoate	No data available				
2-methylundecanal	No data available				

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information



ADG, IMO/IMDG, ICAO/IATA

14.1 UN number or ID number: 1903

14.2 UN proper shipping name:

Disinfectant, liquid, corrosive, n.o.s. (quaternary ammonium compounds)

14.3 Transport hazard class(es):

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Transport hazard class (and subsidiary risks): 8

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 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

Other relevant information:

Hazchem code: 2X

This product has been classified, labelled and package in accordance with the requirements of the NZ Land Transport Rule: Dangerous Goods, ADG, and the provisions of the IMDG Code.

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

HSNO Approval Number

HSR002527.

Group standard

Cleaning Products (Corrosive, Combustible) Group Standard 2020

Inventory Listing(s)

New Zealand: NZIoC (New Zealand Inventory of Chemicals)

All components are listed on the NZIoC inventory, or are exempt

HSNO Classification

3.1D - Flammable liquids: low hazard

6.1D - Acutely toxic (oral)

6.5B - Contact sensitisers

8.2C - Corrosive to dermal tissue

8.3A - Corrosive to ocular tissue

9.1A - Very ecotoxic in the aquatic environment

9.3C - Harmful to terrestrial vertebrates

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

SDS code: MS3200383

Version: 01.2

Revision: 2023-12-13

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 8

Exposure standards - Time Weighted Average (TWA) or Workplace Exposure Standard (WES) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- AUH - Non GHS hazard statement
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number
- OECD - Organisation for Economic Cooperation and Development
- 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.

End of Safety Data Sheet