



TASKFORCE J-FILL

Revision: 2019-07-30

Version: 01.1

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:

Cleaner and disinfectant

Restrictions of use:

Uses other than those identified are not recommended

1.3 Details of the supplier

Diversey Australia Pty. Limited
29 Chifley St, Smithfield, NSW, 2164, Australia
Telephone: 1800 647 779 (toll free)
Fax: (02) 9725 5767
Email: aucustserv@diversey.com
Website: www.diversey.com/

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, Category 4
Skin corrosion, Category 1B
Skin sensitisation, Category 1
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.
H317 - May cause an allergic skin reaction.

Prevention statement(s):

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P210 - Keep away from flames and hot surfaces. No smoking.
P233 - Keep container tightly closed.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
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):

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.

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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**2.4 Classification diluted product:**

Recommended maximum concentration (%): 0.5

Not classified as hazardous

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

Ingredient(s)	CAS number	EC number	Weight percent
didecyldimethylammonium chloride	7173-51-5	230-525-2	3-10
alkyldimethylbenzylammoniumchloride	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
d-limonene	5989-27-5	227-813-5	1-3
citral	5392-40-5	226-394-6	1-3
7-hydroxycitronellal	107-75-5	203-518-7	0.1-1
citronellal	106-23-0	203-376-6	0.1-1

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

[4] Polymer.

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

For the full text of the H and AUH phrases mentioned in this Section, see Section 16.

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.

Inhalation:

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

Skin contact:

Immediately call a POISON CENTRE, doctor or physician.

Eye contact:

Immediately rinse eyes cautiously with lukewarm water for several 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

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.

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 13 11 26 (Australia Wide).

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

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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

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. Dilute with plenty of water.

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

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. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use personal protective equipment as required. 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. Store in a well-ventilated place. Keep cool.

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:

Ingredient(s)	Long term value(s) (TWA)	Short term value(s) (STEL)	Peak value(s)
2,2',2"-nitrioltriethanol	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.

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Appropriate organisational controls:	Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment	
Eye / face protection:	Safety glasses or goggles (EN 166). 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 (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: 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 (%): 0.5

Appropriate engineering controls:	Use only in well ventilated areas.
Appropriate organisational controls:	No special requirements under normal use conditions.
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:	No special requirements under normal use conditions.
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: Perfumed	
Odour threshold: Not applicable	
pH ≈ 8.5 (neat)	
Dilution pH: ≈ 8 (1%)	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	
Flammability (liquid): Not determined.	
Flash point (°C): Not determined	
Sustained combustion: Not applicable. (<i>UN Manual of Tests and Criteria, section 32, L.2</i>)	
Evaporation rate: Not determined	
Flammability (solid, gas): Not determined	
Upper/lower flammability limit (%): Not determined	
Vapour pressure: Not determined	
Vapour density: Not determined	
Relative density: ≈ 1.005 (20 °C)	
Solubility in / Miscibility with Water: Fully miscible	
Partition coefficient: n-octanol/water No information 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. 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

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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

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): 2300

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)
didecyldimethylammonium chloride	LD ₅₀	238	Rat	Method not given	
alkyldimethylbenzylammoniumchloride	LD ₅₀	398	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	3570	Rat	Method not given	
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given	
citral		No data available			
7-hydroxycitronellal		No data available			
citronellal		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride		No data available			
alkyldimethylbenzylammoniumchloride	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			
7-hydroxycitronellal		No data available			
citronellal		No data available			

Acute inhalative toxicity

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

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		available			
alkyldimethylbenzylammoniumchloride		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			
7-hydroxycitronellal		No data available			
citronellal		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)	
alkyldimethylbenzylammoniumchloride	Corrosive	Rabbit	Method not given	
2,2',2"-nitrilotriethanol	Mild irritant			
Alcohols, C12-14, ethoxylated	No data available			
ethanol	No data available			
propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
d-limonene	Irritant	Rabbit	Method not given	
citral	No data available			
7-hydroxycitronellal	No data available			
citronellal	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
didecyldimethylammonium chloride	No data available			
alkyldimethylbenzylammoniumchloride	Severe damage		Method not given	
2,2',2"-nitrilotriethanol	Not corrosive or irritant			
Alcohols, C12-14, ethoxylated	No data available			
ethanol	No data available			
propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
d-limonene	No data available			
citral	No data available			
7-hydroxycitronellal	No data available			
citronellal	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
didecyldimethylammonium chloride	No data available			
alkyldimethylbenzylammoniumchloride	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			
7-hydroxycitronellal	No data available			
citronellal	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	
alkyldimethylbenzylammoniumchloride	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	No data available			
propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

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d-limonene	Sensitising	Guinea pig	Method not given	
citral	No data available			
7-hydroxycitronellal	No data available			
citronellal	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
didecyldimethylammonium chloride	No data available			
alkyldimethylbenzylammoniumchloride	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			
7-hydroxycitronellal	No data available			
citronellal	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

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

Carcinogenicity

Ingredient(s)	Effect
didecyldimethylammonium chloride	No data available
alkyldimethylbenzylammoniumchloride	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
7-hydroxycitronellal	No data available
citronellal	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
didecyldimethylammonium chloride			No data available				
alkyldimethylbenzylammoniumchloride			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				
7-hydroxycitronellal			No data available				
citronellal			No data				

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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
didecyldimethylammonium chloride		No data available				
alkyldimethylbenzylammoniumchloride		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				
7-hydroxycitronellal		No data available				
citronellal		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
didecyldimethylammonium chloride		No data available				
alkyldimethylbenzylammoniumchloride		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				
7-hydroxycitronellal		No data available				
citronellal		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
didecyldimethylammonium chloride		No data available				
alkyldimethylbenzylammoniumchloride		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				
7-hydroxycitronellal		No data available				
citronellal		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
didecyldimethylammonium chloride			No data available					
alkyldimethylbenzylammoniumchloride			No data available					

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2,2',2''-nitrioltriethanol			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				
7-hydroxycitronellal			No data available				
citronellal			No data available				

STOT-single exposure

Ingredient(s)	Affected organ(s)
didecyldimethylammonium chloride	No data available
alkyldimethylbenzylammoniumchloride	No data available
2,2',2''-nitrioltriethanol	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
7-hydroxycitronellal	No data available
citronellal	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
didecyldimethylammonium chloride	No data available
alkyldimethylbenzylammoniumchloride	No data available
2,2',2''-nitrioltriethanol	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
7-hydroxycitronellal	No data available
citronellal	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)
didecyldimethylammonium chloride	LC ₅₀	0.97	<i>Brachydanio rerio</i>	OECD 203 (EU C.1)	96
alkyldimethylbenzylammoniumchloride	LC ₅₀	0.515	<i>Fish</i>	Method not given	96
2,2',2''-nitrioltriethanol	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		
7-hydroxycitronellal		No data available		
citronellal		No data available		

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride	EC ₅₀	0.053	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
alkyldimethylbenzylammoniumchloride	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	9268 - 14221	<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			
7-hydroxycitronellal		No data available			
citronellal		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
didecyldimethylammonium chloride	EC ₅₀	0.053	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
alkyldimethylbenzylammoniumchloride	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 ₀	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
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			
7-hydroxycitronellal		No data available			
citronellal		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
didecyldimethylammonium chloride		No data available			-
alkyldimethylbenzylammoniumchloride		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			
7-hydroxycitronellal		No data available			
citronellal		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time

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didecyldimethylammonium chloride		No data available			
alkyldimethylbenzylammoniumchloride	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			
7-hydroxycitronellal		No data available			
citronellal		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				
alkyldimethylbenzylammoniumchloride		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				
7-hydroxycitronellal		No data available				
citronellal		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	<i>Daphnia magna</i>	OECD 211	21 day(s)	
alkyldimethylbenzylammoniumchloride	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				
citral		No data available				
7-hydroxycitronellal		No data available				
citronellal		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
didecyldimethylammonium chloride		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	
2,2',2"-nitrilotriethanol		No data available			-	
Alcohols, C12-14, ethoxylated		No data available				

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ethanol		No data available			-	
propan-2-ol		No data available			-	
d-limonene		No data available			-	
citral		No data available				
7-hydroxycitronellal		No data available				
citronellal		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
didecyltrimethylammonium chloride		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	
2,2',2''-nitrilotriethanol		No data available			-	
ethanol		No data available			-	
propan-2-ol		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
didecyltrimethylammonium chloride		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	
2,2',2''-nitrilotriethanol		No data available			-	
ethanol		No data available			-	
propan-2-ol		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
didecyltrimethylammonium chloride		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	
2,2',2''-nitrilotriethanol		No data available			-	
ethanol		No data available			-	
propan-2-ol		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
didecyltrimethylammonium chloride		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	
2,2',2''-nitrilotriethanol		No data available			-	
ethanol		No data available			-	
propan-2-ol		No data available			-	
d-limonene		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

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Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
didecyldimethylammonium chloride		No data available			-	
alkyldimethylbenzylammoniumchloride		No data available			-	
2,2',2"-nitrilotriethanol		No data available			-	
ethanol		No data available			-	
propan-2-ol		No data available			-	
d-limonene		No data available			-	

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
didecyldimethylammonium chloride		Oxygen depletion	> 60%	OECD 301D	Readily biodegradable
alkyldimethylbenzylammoniumchloride		Oxygen depletion	> 60%	Read across	Readily biodegradable
2,2',2"-nitrilotriethanol				OECD 301E	Readily biodegradable
Alcohols, C12-14, ethoxylated				OECD 301F	Readily biodegradable
ethanol				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
7-hydroxycitronellal				OECD 301F	Readily biodegradable
citronellal	Activated sludge, aerobe		83%	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
didecyldimethylammonium chloride	No data available			
alkyldimethylbenzylammoniumchloride	2.88	OECD 107	No bioaccumulation expected	
2,2',2"-nitrilotriethanol	-1.75		No bioaccumulation expected	
Alcohols, C12-14, ethoxylated	No data available			
ethanol	-0.35	Weight of evidence		
propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
d-limonene	No data available		High potential for bioaccumulation	
citral	No data available			
7-hydroxycitronellal	No data available			
citronellal	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
didecyldimethylammonium chloride	2.1		Method not given	No bioaccumulation expected	
alkyldimethylbenzylammoniumchloride	0.5		Method not given	No bioaccumulation expected	
2,2',2"-nitrilotriethanol	No data available			Low potential for bioaccumulation	
Alcohols, C12-14, ethoxylated	No data available				
ethanol	No data available				
propan-2-ol	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
citral	No data available				
7-hydroxycitronellal	No data available				
citronellal	No data available				

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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				
alkyldimethylbenzylammoniumchloride	No data available				
2,2',2"-nitrioltriethanol	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				
7-hydroxycitronellal	No data available				
citronellal	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:**

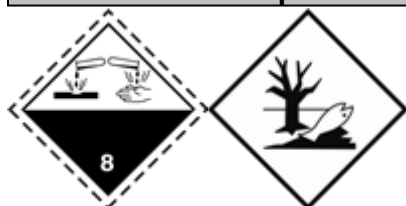
The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

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:** 1903**14.2 UN proper shipping name:**

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

14.3 Transport hazard class(es):**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:****14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Hazchem code:** 2X**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.

Poison schedule

Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classification

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.

Inventory listing(s)

AICS (Australian Inventory of Chemical Substances): All components are listed on AICS, or are exempt.

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: MS31000497**Version:** 01.1**Revision:** 2019-07-30**Full text of the H phrases mentioned in section 3:****Additional information:**

Respirators: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

Work practices - solvents: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

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).

Personal protective equipment guidelines: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Health effects from exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Safety Data Sheet which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations and acronyms:

- ATE - Acute Toxicity Estimate
- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal dose
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- EC No. - European Community Number
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet