

# **Safety Data Sheet**

## **Crew SmartDose (Restroom Floor & Surface Cleaner)**

**Revision:** 2016-01-20 **Version:** 01.0

### SECTION 1: Identification of the substance/mixture and supplier

#### 1.1 Product identifier

Product name: Crew SmartDose (Restroom Floor & Surface Cleaner)

#### 1.2 Recommended use and restrictions on use

Identified uses:

Floor and surface cleaner - 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@sealedair.com Website: http://www.sealedair.com/

#### 1.4 Emergency telephone number

Call 1800 033 111 (24hrs)

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Flammable liquids, Category 3 Skin corrosion, Category 1B Corrosive to the respiratory tract, AUH071 Acute toxicity, oral, Category 4

#### 2.2 Label elements



Signal word: Danger, Warning

#### Hazard statements:

H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

AUH071 - Corrosive to the respiratory tract.

H302 - Harmful if swallowed.

### Prevention statement(s):

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

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

P233 - Keep container tightly closed.

P240 - Ground or bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe spray.

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

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

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.



P301 + P312 - IF SWALLOWED: Call a POISON CENTRE, doctor or physician if you feel unwell.

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).

P330 - Rinse mouth.

P363 - Wash contaminated clothing before reuse.

P370 + P378 - In case of fire: Use CO2, dry chemical, or foam 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 (%): 0.39

Not classified

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
alkyl alcohol ethoxylate	68131-39-5	Polymer*	Acute Tox. 4 (H302)	10-30
			Eye Dam. 1 (H318)	
alkyldimethylbenzylammoniumchloride	68424-85-1	270-325-2	Skin Corr. 1B (H314)	3-10
			Acute Tox. 4 (H302)	
			Acute Tox. 4 (H312)	
Octyl decyl dimethyl ammonium chloride	32426-11-2	251-035-5	Skin Corr. 1B (H314)	3-10
			Acute Tox. 4 (H302)	
ethanol	64-17-5	200-578-6	Flam. Liq. 2 (H225)	3-10
			Eye Irrit. 2 (H319)	
tetrasodium ethylene diamine tetraacetate	64-02-8	200-573-9	Acute Tox. 4 (H302)	3-10
			Acute Tox. 4 (H332)	
			Eye Dam. 1 (H318)	
dimethyldioctylammonium chloride	5538-94-3	226-901-0	Skin Corr. 1B (H314)	3-10
			Acute Tox. 4 (H302)	
didecyldimethylammonium chloride	7173-51-5	230-525-2	Skin Corr. 1B (H314)	3-10
·			Acute Tox. 4 (H302)	

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

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

Skin contact:

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. Immediately call a POISON CENTRE, doctor or physician. Get medical attention or advice if you feel unwell.

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated

clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician. If skin

irritation or rash occurs: Get medical advice or attention.

Eye contact: Immediately rinse eyes cautiously with lukewarm water for several minutes. Rinse cautiously with

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. 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.

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

**Inhalation:** Corrosive to the respiratory tract.

**Skin contact:** Causes severe burns.

**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. Sand. Alcohol-resistant foam. Do not use water.

#### 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.

#### 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 to prevent aerosol and dust generation:

Avoid formation of aerosol.

### 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. Keep out of reach of children. Handle and open container with care. Do not mix with other products unless adviced by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe spray. Do not eat, drink or smoke when using this product. Use only with adequate ventilation.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep locked up and out of the reach of children. Keep only in original container. Store in a closed container.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

#### 7.3 Specific end use(s)

No specific advice for end use available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s) (TWA)	Short term value(s) (STEL)	Peak value(s)
ethanol	1000 ppm 1880 mg/m <sup>3</sup>		

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 (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.

**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or

aerosols should be avoided.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unneutralised.

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

Recommended maximum concentration (%): 0.39

Appropriate engineering controls: No special requirements under normal use conditions. 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.

Hand protection:

Body protection:

Respiratory protection:

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

No special requirements under normal use conditions.

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: Product specific

Method

Exposure

#### Crew SmartDose (Restroom Floor & Surface Cleaner)

Odour threshold: Not applicable

**pH**: ≈ 7.25 (neat)

Melting point/freezing point (°C): Not determined

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

Flash point (°C):  $\approx$  54.4 closed cup Sustained combustion: The product does not sustain combustion Weight of evidence

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: 1.02 g/cm³ (20 °C)

Solubility in / Miscibility with Water: Soluble Not miscible or difficult to mix

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 precautionary measures against static discharge. Keep in a cool place. Keep container in a well-ventilated place.

#### 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): 1400 ATE - Dermal (mg/kg): >5000 ATE - Inhalatory, mists (mg/l): >20

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

#### Acute toxicity Acute oral toxicity

Value Ingredient(s) Endpoint **Species** 

	(mg/kg)			time (h)
	No data			
	available			
LD 50	398	Rat		
	No data			
	available			
LD 50	5000	Rat	OECD 401 (EU B.1)	
LD 50	>= 1780	Rat	Non guideline test	
LD 50	> 300-2000	Rat	Read across	-
LD 50	300 - 2000	Rat	OECD 401 (EU B.1)	
	LD 50 LD 50 LD 50	No data available	No data   available	No data available

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride	LD 50	800 - 1420	Rat	Method not given	
Octyl decyl dimethyl ammonium chloride		No data available			
ethanol	LD 50	> 10000	Rabbit	OECD 402 (EU B.3)	
tetrasodium ethylene diamine tetraacetate	LD 50	> 5000	Rabbit	Method not given	
dimethyldioctylammonium chloride		No data available			
didecyldimethylammonium chloride		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride		No data available			
Octyl decyl dimethyl ammonium chloride		No data available			
ethanol	LC 50	> 1800	Rat	Non guideline test	4
tetrasodium ethylene diamine tetraacetate	LC 50	>= 1 (dust)	Rat	OECD 403 (EU B.2)	6
dimethyldioctylammonium chloride		No data available			
didecyldimethylammonium chloride		No data available			

# Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	Corrosive		Method not given	
Octyl decyl dimethyl ammonium chloride	No data available			
ethanol	No data available			
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	Non guideline test	
dimethyldioctylammonium chloride	Corrosive		Method not given	
didecyldimethylammonium chloride	Corrosive	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	Severe damage		Method not given	
Octyl decyl dimethyl ammonium chloride	No data available			
ethanol	No data available			
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	
dimethyldioctylammonium chloride	No data available			
didecyldimethylammonium chloride	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	No data available			
Octyl decyl dimethyl ammonium chloride	No data available			
ethanol	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
dimethyldioctylammonium chloride	No data available			
didecyldimethylammonium chloride	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	Not sensitising		Method not given	
Octyl decyl dimethyl ammonium chloride	No data available			
ethanol	No data available			
tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
dimethyldioctylammonium chloride	No data available			

- 4				
	P. L I. P	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		ı
	didecyldimethylammonium chloride	No data available		ı
				1

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	No data available			
Octyl decyl dimethyl ammonium chloride	No data available			
ethanol	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
dimethyldioctylammonium chloride	No data available			
didecyldimethylammonium chloride	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)
alkyl alcohol ethoxylate	No data available		No data available	
alkyldimethylbenzylammoniumchloride	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
Octyl decyl dimethyl ammonium chloride	No data available		No data available	
ethanol	No data available		No data available	
tetrasodium ethylene diamine tetraacetate	No evidence for mutagenicity, negative test results		No evidence of genotoxicity, negative test results	Method not given
dimethyldioctylammonium chloride	No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13) draft OECD 487 Read across	No data available	
didecyldimethylammonium chloride	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol ethoxylate	No data available
alkyldimethylbenzylammoniumchloride	No data available
Octyl decyl dimethyl ammonium chloride	No data available
ethanol	No data available
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence
dimethyldioctylammonium chloride	No data available
didecyldimethylammonium chloride	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
alkyl alcohol ethoxylate			No data				1
			available				
alkyldimethylbenzylam			No data				
moniumchloride			available				
Octyl decyl dimethyl			No data				
ammonium chloride			available				
ethanol			No data				
			available				
tetrasodium ethylene			No data				No evidence for reproductive
diamine tetraacetate			available				toxicity
dimethyldioctylammoni			No data				
um chloride			available				
didecyldimethylammoni			No data				
um chloride			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
alkyl alcohol ethoxylate		No data				
		available				
alkyldimethylbenzylammoniumchloride		No data				
		available				
Octyl decyl dimethyl ammonium chloride		No data				
		available				
ethanol		No data				
		available				
tetrasodium ethylene diamine tetraacetate		No data				
_		available				
dimethyldioctylammonium chloride		No data				
·		available				
didecyldimethylammonium chloride		No data				
		available			1	

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				
Octyl decyl dimethyl ammonium chloride		No data available				
ethanol		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				
dimethyldioctylammonium chloride		No data available				
didecyldimethylammonium chloride		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				
Octyl decyl dimethyl ammonium chloride		No data available				
ethanol		No data available				
tetrasodium ethylene diamine tetraacetate		No data available				
dimethyldioctylammonium chloride		No data available				
didecyldimethylammonium chloride		No data available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
alkyl alcohol ethoxylate			No data					
,			available					
alkyldimethylbenzylam			No data					
moniumchloride			available					
Octyl decyl dimethyl			No data					
ammonium chloride			available					
ethanol			No data					
			available					
tetrasodium ethylene			No data					
diamine tetraacetate			available					
dimethyldioctylammoni			No data					
um chloride			available					
didecyldimethylammoni			No data					
um chloride			available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
alkyldimethylbenzylammoniumchloride	No data available
Octyl decyl dimethyl ammonium chloride	No data available
ethanol	No data available
tetrasodium ethylene diamine tetraacetate	No data available
dimethyldioctylammonium chloride	No data available
didecyldimethylammonium chloride	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
alkyldimethylbenzylammoniumchloride	No data available
Octyl decyl dimethyl ammonium chloride	No data available
ethanol	No data available
tetrasodium ethylene diamine tetraacetate	Not applicable
dimethyldioctylammonium chloride	No data available
didecyldimethylammonium chloride	No data available

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

## Potential adverse health effects and symptoms

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

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data is available on the mixture

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)
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride	LC 50	> 0.1-1	Fish	Method not given	96
Octyl decyl dimethyl ammonium chloride		No data available			
ethanol	LC 50	8150	Alburnus alburnus	Method not given	96
tetrasodium ethylene diamine tetraacetate	LC 50	> 100	Lepomis macrochirus	OPP 72-1, static (EPA)	96
dimethyldioctylammonium chloride	LC 50	0.35	Oncorhynchus mykiss	EPA-OPPTS	96
didecyldimethylammonium chloride	LC 50	0.97	Brachydanio rerio	OECD 203	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride	EC 50	0.02	Daphnia	Method not given	48
Octyl decyl dimethyl ammonium chloride		No data available			
ethanol	EC 50	9268 - 14221	Daphnia magna Straus	Method not given	48
tetrasodium ethylene diamine tetraacetate	EC 50	> 100	Daphnia magna Straus	DIN 38412, Part 11	48
dimethyldioctylammonium chloride	EC 50	> 0.01-0.1	Daphnia magna Straus	Read across	48
didecyldimethylammonium chloride	EC 50	0.053	Daphnia magna Straus	OECD 202	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride	EC 50	0.06	Pseudokirchner iella subcapitata	OECD 201	96
Octyl decyl dimethyl ammonium chloride		No data available			
ethanol	EC <sub>0</sub>	5000	Scenedesmus quadricauda	Method not given	168
tetrasodium ethylene diamine tetraacetate	EC 50	> 100	Scenedesmus obliquus	88/302/EEC, Part C, static	72
dimethyldioctylammonium chloride	IC 50	> 0.01-0.1	Not specified	Read across	72
didecyldimethylammonium chloride	EC 50	0.053	Pseudokirchner iella subcapitata	OECD 201	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride		No data available			-
Octyl decyl dimethyl ammonium chloride		No data available			
ethanol		No data available			-
tetrasodium ethylene diamine tetraacetate		No data available			-
dimethyldioctylammonium chloride		No data			-

	available		
didecyldimethylammonium chloride	No data		-
	available		

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol ethoxylate		No data available			
alkyldimethylbenzylammoniumchloride	EC 20	10	Activated sludge	OECD 209	0.5 hour(s)
Octyl decyl dimethyl ammonium chloride		No data available			
ethanol	EC <sub>0</sub>	6500	Pseudomonas putida	Method not given	16 hour(s)
tetrasodium ethylene diamine tetraacetate	EC 20	> 500	Activated sludge	OECD 209	0.5 hour(s)
dimethyldioctylammonium chloride		No data available			
didecyldimethylammonium chloride		No data available		-	

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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				
Octyl decyl dimethyl ammonium chloride		No data available				
ethanol		No data available				
tetrasodium ethylene diamine tetraacetate	NOEC	>= 36.9	Brachydanio rerio	OECD 210	35 day(s)	
dimethyldioctylammonium chloride		No data available				
didecyldimethylammonium chloride		No data available				

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available				
Octyl decyl dimethyl ammonium chloride		No data available				
ethanol		No data available				
tetrasodium ethylene diamine tetraacetate	NOEC	25	Daphnia magna	OECD 211	21 day(s)	
dimethyldioctylammonium chloride		No data available				
didecyldimethylammonium chloride	NOEC	> 0.01-0.1	Daphnia magna	OECD 211		

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data available				
alkyldimethylbenzylammoniumchloride		No data available			-	
Octyl decyl dimethyl ammonium chloride		No data available				
ethanol		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
dimethyldioctylammonium chloride		No data available			-	
didecyldimethylammonium chloride		No data available			-	

**Terrestrial toxicity**<u>Terrestrial toxicity - soil invertebrates, including earthworms, if available:</u>

Tonounal tonion, Tonion in the transfer and the transfer									
	Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed	ı	

		(mg/kg dw soil)			time (days)	
alkyldimethylbenzylammoniumchloride		No data available			-	
ethanol		No data available			-	
tetrasodium ethylene diamine tetraacetate	LD 50	156	Eisenia fetida	OECD 207	14	
dimethyldioctylammonium chloride		No data available			-	
didecyldimethylammonium chloride		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyldimethylbenzylammoniumchloride		No data available			-	
ethanol		No data available			-	
tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25			21	
dimethyldioctylammonium chloride		No data available			-	
didecyldimethylammonium chloride		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
alkyldimethylbenzylammoniumchloride		No data available			-	
ethanol		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
dimethyldioctylammonium chloride		No data available			-	
didecyldimethylammonium chloride		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyldimethylbenzylammoniumchloride		No data available			-	
ethanol		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
dimethyldioctylammonium chloride		No data available			-	
didecyldimethylammonium chloride		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyldimethylbenzylammoniumchloride		No data available			-	
ethanol		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
dimethyldioctylammonium chloride		No data available			-	
didecyldimethylammonium chloride		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 **DT** 50 Method Evaluation Inoculum Analytical Ingredient(s)

	method			
alkyl alcohol ethoxylate				No data available
alkyldimethylbenzylammoniumchloride	Oxygen depletion	> 60%	OECD 301D	Readily biodegradable
Octyl decyl dimethyl ammonium chloride				No data available
ethanol				No data available
tetrasodium ethylene diamine tetraacetate				Readily biodegradable
dimethyldioctylammonium chloride	CO <sub>2</sub> production	86 % in 28 day(s)	OECD 301B	Readily biodegradable
didecyldimethylammonium chloride	Oxygen depletion	> 60%	OECD 301D	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 Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol ethoxylate	No data available			
alkyldimethylbenzylammoniumchloride	0.5 - 1.58	Method not given	No bioaccumulation expected	
Octyl decyl dimethyl ammonium chloride	No data available			
ethanol	No data available			
tetrasodium ethylene diamine tetraacetate	-13	Method not given	No bioaccumulation expected	
dimethyldioctylammonium chloride	< 3	Method not given	Low potential for bioaccumulation	
didecyldimethylammonium chloride	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	No data available				
alkyldimethylbenzylam moniumchloride	0.5		Method not given	No bioaccumulation expected	
Octyl decyl dimethyl ammonium chloride	No data available				
ethanol	No data available				
tetrasodium ethylene diamine tetraacetate	1.8	Lepomis macrochirus	Method not given	Low potential for bioaccumulation	
dimethyldioctylammoni um chloride	=			No bioaccumulation expected	
didecyldimethylammoni um chloride	2.1		Method not given	No bioaccumulation expected	

#### 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
alkyl alcohol ethoxylate	No data available				
alkyldimethylbenzylammoniumchloride	No data available				
Octyl decyl dimethyl ammonium chloride	No data available				
ethanol	No data available				
tetrasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected
dimethyldioctylammonium chloride	No data available				
didecyldimethylammonium chloride	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.

### **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. ( alkyldimethylbenzylammoniumchloride )

#### 14.3 Transport hazard class(es):

Class: 8
Label(s): 8

14.4 Packing group: |||

14.5 Environmental hazards:
Environmentally hazardous: Yes
Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

#### Other relevant information:

Hazchem code: 2X

The product has been classified, labelled and packaged in accordance with the requirements of 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

Poison schedule Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling

of Medicines and Poisons (SUSMP).

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:** MS31000103 **Version:** 01.0 **Revision:** 2016-01-20

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

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

#### 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**