



## CREW SHOWER, TUB & TILE CLEANER J-FILL

Revision: 2018-02-02

Version: 01.1

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

#### 1.1 Product identifier

**Product name:** CREW SHOWER, TUB & TILE CLEANER J-FILL

#### 1.2 Recommended use and restrictions on use

**Identified uses:**

Bathroom cleaner and scale remover

**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

Call 1800 033 111 (24hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin corrosion, Category 1B

Corrosive to metals, Category 1

#### 2.2 Label elements



**Signal word:** Danger

**Hazard statements:**

H314 - Causes severe skin burns and eye damage.

H290 - May be corrosive to metals.

**Prevention statement(s):**

P233 - Keep container tightly closed.

P234 - Keep only in original packaging.

P260 - Do not breathe vapours.

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

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.

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.

P390 - Absorb spillage to prevent material damage.

**Storage statement(s):**

P405 - Store locked up.

P406 - Store in corrosive-resistant container with a resistant inner liner.

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**Disposal statement(s):**

P501 - Dispose of unused content as chemical waste.

**2.3 Other hazards****2.4 Classification diluted product:**

Recommended maximum concentration (%): 2.44

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

Ingredient(s)	CAS number	EC number	Weight percent
citric acid	77-92-9	201-069-1	10-30
glycolic acid	79-14-1	201-180-5	10-30
alkyl alcohol ethoxylate	68439-46-3	Polymer*	10-30
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	14960-06-6	239-032-7	1-3
methoxyacetic acid	625-45-6	210-894-6	0.01-0.1

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

\* 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****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 re-use. 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.

**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**

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.

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

Ensure adequate ventilation. Do not breathe dust or vapour. 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**

Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

**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:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. 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. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours. Use only with adequate ventilation.

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

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

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Biological limit values, if available:

**8.2 Exposure controls**

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

**Recommended safety measures for handling the 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:  $\geq$  480 min  
Material thickness:  $\geq$  0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq$  30 min  
Material thickness:  $\geq$  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:**

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

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aerosols should be avoided.

**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 (%):** 2.44

**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:** 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:** 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 Red

**Odour:** Product specific

**Odour threshold:** Not applicable

**pH:** ≈ (neat)

**Dilution pH:** < 3 (1%)

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

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

**Flash point (°C):** Not applicable.

**Sustained combustion:** Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

**Evaporation rate:** Not determined

**Flammability (solid, gas):** Not determined

**Upper/lower flammability limit (%):** Not determined

**Vapour pressure:** Not determined

**Vapour density:** Not determined

**Relative density:** ≈ Not determined (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.

**Oxidising properties:** Not oxidising

Not relevant to classification of this product

**9.2 Other information**

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Corrosive

Weight of evidence

**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**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

None known under normal use conditions.

**10.6 Hazardous decomposition products**

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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): 4700

ATE - Inhalatory, vapours (mg/l): >50

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)
citric acid	LD <sub>50</sub>	3000	Rat	Method not given	
glycolic acid	LD <sub>50</sub>	2040	Rat	EPA OPP 81-1	
alkyl alcohol ethoxylate	LD <sub>50</sub>	300 - 2000		Method not given	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
citric acid	LD <sub>50</sub>	> 2000	Rat	Method not given	
glycolic acid		No data available			
alkyl alcohol ethoxylate	LD <sub>50</sub>	2000 - 5000	Rat	Method not given	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
citric acid		No data available			
glycolic acid	LC <sub>50</sub>	3.6 (mist)	Rat	OECD 403 (EU B.2)	4
alkyl alcohol ethoxylate		No data available			
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

#### Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
citric acid	Not irritant	Rabbit	OECD 404 (EU B.4)	
glycolic acid	Corrosive	Rabbit	Method not given	
alkyl alcohol ethoxylate	Not irritant		Method not given	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available			
methoxyacetic acid	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
citric acid	Irritant	Rabbit	OECD 405 (EU B.5)	
glycolic acid	Corrosive	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available			
methoxyacetic acid	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
citric acid	No data available			

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glycolic acid	No data available			
alkyl alcohol ethoxylate	No data available			
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available			
methoxyacetic acid	No data available			

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
citric acid	Not sensitising	Guinea pig	Method not given	
glycolic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available			
methoxyacetic acid	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
citric acid	No data available			
glycolic acid	No data available			
alkyl alcohol ethoxylate	No data available			
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available			
methoxyacetic acid	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)
citric acid	No data available		No evidence of genotoxicity, negative test results	Method not given
glycolic acid	No evidence for mutagenicity		No evidence for mutagenicity	Method not given
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	OECD 473	No data available	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available		No data available	
methoxyacetic acid	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
citric acid	No evidence for carcinogenicity, negative test results
glycolic acid	No evidence for carcinogenicity, weight-of-evidence
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available
methoxyacetic acid	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
citric acid			No data available				No evidence for reproductive toxicity
glycolic acid			No data available				No evidence for reproductive toxicity
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No developmental toxicity
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate			No data available				
methoxyacetic acid			No data available				Indications of possible fertility impairing effect

**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
citric acid		No data available				
glycolic acid	NOAEL	150	Rat	OECD 408 (EU B.26)	90	No adverse effects observed
alkyl alcohol ethoxylate	NOAEL	80 - 400		Method not given		
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available				
methoxyacetic acid		No data available				

Sub-chronic dermal toxicity

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Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
citric acid		No data available				
glycolic acid		No data available				
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)	90	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available				
methoxyacetic acid		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
citric acid		No data available				
glycolic acid		No data available				
alkyl alcohol ethoxylate		No data available				
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available				
methoxyacetic acid		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
citric acid			No data available					
glycolic acid			No data available					
alkyl alcohol ethoxylate			No data available					
sodium N-(2-carboxyethyl)-N-d odecyl-β-alaninate			No data available					
methoxyacetic acid			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
citric acid	No data available
glycolic acid	No data available
alkyl alcohol ethoxylate	No data available
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available
methoxyacetic acid	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
citric acid	No data available
glycolic acid	No data available
alkyl alcohol ethoxylate	No data available
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available
methoxyacetic acid	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)
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## CREW SHOWER, TUB &amp; TILE CLEANER J-FILL

citric acid	LC <sub>50</sub>	440	<i>Leuciscus idus</i>	Method not given	48
glycolic acid	LC <sub>50</sub>	164	<i>Pimephales promelas</i>	Method not given	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	5 - 7	<i>Fish</i>	92/69/EEC, C1, semi-static	96
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
citric acid	EC <sub>50</sub>	1535	<i>Daphnia magna Straus</i>	Method not given	24
glycolic acid	EC <sub>50</sub>	141	<i>Daphnia magna Straus</i>	Method not given	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	5.3	<i>Daphnia</i>	92/69/EEC	48
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
citric acid	LC <sub>50</sub>	425	<i>Scenedesmus quadricauda</i>	Method not given	168
glycolic acid	E <sub>r</sub> C <sub>50</sub>	44	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
alkyl alcohol ethoxylate	EC <sub>50</sub>	1.4 - 47	<i>Not specified</i>	92/69/EEC	72
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
citric acid		No data available			-
glycolic acid		No data available			-
alkyl alcohol ethoxylate		No data available			-
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
citric acid	EC <sub>50</sub>	> 10000	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
glycolic acid		No data available			
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 140	<i>Bacteria</i>	Method not given	3 hour(s)
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available			
methoxyacetic acid		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
citric acid		No data available				
glycolic acid		No data available				
alkyl alcohol ethoxylate	EC <sub>10</sub>	8.983	<i>Not specified</i>	Method not given	21 day(s)	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available				
methoxyacetic acid		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
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## CREW SHOWER, TUB &amp; TILE CLEANER J-FILL

		(mg/l)			time	
citric acid		No data available				
glycolic acid		No data available				
alkyl alcohol ethoxylate	EC <sub>10</sub>	2.579	<i>Daphnia sp.</i>	Method not given	21 day(s)	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available				
methoxyacetic acid		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
citric acid		No data available			-	
glycolic acid		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate		No data available				
methoxyacetic acid		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
citric acid		No data available			-	
glycolic acid		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
citric acid		No data available			-	
glycolic acid		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
citric acid		No data available			-	
glycolic acid		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
citric acid		No data available			-	
glycolic acid		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
citric acid		No data available			-	
glycolic acid		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

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**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 <sub>50</sub>	Method	Evaluation
citric acid			97 % in 28 day(s)		Readily biodegradable
glycolic acid					Readily biodegradable
alkyl alcohol ethoxylate			60 % in 28 day(s)	Method not given	Readily biodegradable
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate				OECD 301E	Readily biodegradable
methoxyacetic acid				OECD 301A	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<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
citric acid	-1.72		No bioaccumulation expected	
glycolic acid	-1.07	Method not given	No bioaccumulation expected	
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available			
methoxyacetic acid	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
citric acid	No data available				
glycolic acid	No data available				
alkyl alcohol ethoxylate	< 500		Method not given	High potential for bioaccumulation	
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available				
methoxyacetic acid	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K <sub>oc</sub>	Desorption coefficient Log K <sub>oc</sub> (des)	Method	Soil/sediment type	Evaluation
citric acid	No data available				Potential for mobility in soil, soluble in water
glycolic acid	No data available				
alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water
sodium N-(2-carboxyethyl)-N-dodecyl-β-alaninate	No data available				
methoxyacetic acid	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**

## CREW SHOWER, TUB &amp; TILE CLEANER J-FILL

**ADG, IMO/IMDG, ICAO/IATA****14.1 UN number:** 3265**14.2 UN proper shipping name:**

Corrosive liquid, acidic, organic, n.o.s. ( glycolic acid )

**14.3 Transport hazard class(es):****Class:** 8**Label(s):** 8**14.4 Packing group:** III**14.5 Environmental hazards:****14.6 Special precautions for user:** None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****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**

<b>National regulations</b>	Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.
<b>Poison schedule</b>	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
<b>Classification</b>	Globally Harmonised System of Classification and Labelling of Chemicals (GHS) as published by Safework Australia.
<b>Inventory listing(s)</b>	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:** MS31000099**Version:** 01.1**Revision:** 2018-02-02**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**End of Safety Data Sheet**