

Suma Bio-Floor Cleaner

Revision: 2015-06-26

Version: 01.0

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

**1.1 Product identifier**

**Product name:** Suma Bio-Floor Cleaner

**1.2 Recommended use and restrictions on use**

**Identified uses:**

Bio-active floor cleaner

**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.diversev.com

**1.4 Emergency telephone number**

Call 1800 033 111 (24hrs)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classified as hazardous according to Safe Work Australia criteria.

Serious eye irritation, Category 2

**2.2 Label elements**



**Signal word:** Warning

**Hazard statements:**

H319 - Causes serious eye irritation.

**Prevention statement(s):**

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

**Response statement(s):**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice or attention.

**2.3 Other hazards**

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

**3.1 Substances / Mixtures**

Ingredient(s)	CAS number	EC number	Classification	Weight percent
Alcohol ethoxylates	68439-46-3		Eye Dam. 1 (H318)	10-30
1-methoxy-2-propanol	107-98-2	203-539-1	Flam. Liq. 3 (H226) STOT SE 3 (H336)	3-10

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alkyl polyglucoside	68515-73-1	500-220-1	Eye Dam. 1 (H318)	3-10
tetrasodium ethylene diamine tetraacetate	64-02-8	200-573-9	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318)	3-10
Alcohol ethoxylate	68002-97-1	500-182-6	Eye Dam. 1 (H318)	1-3
alkyl polyglucoside	110615-47-9	600-975-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	1-3

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

#### Inhalation

Get medical attention or advice if you feel unwell.

#### Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

#### Eye contact:

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

#### Ingestion:

Immediately drink 1 glass of water. 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:

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:

No known effects or symptoms in normal use.

#### Eye contact:

Causes severe irritation.

#### Ingestion:

No known effects or symptoms in normal use.

### 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

*None allocated*

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

### 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:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

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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 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. 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 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)
1-methoxy-2-propanol	100 ppm 369 mg/m <sup>3</sup>	150 ppm 553 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.*

*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:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**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:** 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.

*Recommended safety measures for handling the diluted product:*

**Recommended maximum concentration (%):** 3.03

**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**

**Physical State:** Liquid

**Colour:** Hazy Green

**Odour:** Product specific

**Odour threshold:** Not applicable

**pH:** ≈ 9.45 (neat)

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

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

**Flash point (°C):** > 93.4

**Sustained combustion:** Not applicable.

**Method / remark**

closed cup

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**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:** 1.037 g/cm<sup>3</sup> (20 °C)  
**Solubility in / Miscibility with Water:** Fully miscible  
**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not applicable.  
**Viscosity:** Not determined  
**Explosive properties:** Not explosive.  
**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**

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): >2000  
 ATE - Inhalatory, mists (mg/l): >5

**Eye irritation and corrosivity**

**Result:** Eye irritant 2A      **Method:** Weight of evidence

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)
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol	LD <sub>50</sub>	4016	Rat	Method not given	-
alkyl polyglucoside	LD <sub>50</sub>	> 2000	Rat	OECD 423 (EU B.1 tris)	-
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	>= 1780	Rat	Non guideline test	-
Alcohol ethoxylate		No data available			
alkyl polyglucoside	LD <sub>50</sub>	> 2000		OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol	LD <sub>50</sub>	> 2000	Rabbit	Method not given	-
alkyl polyglucoside	LD <sub>50</sub>	> 2000	Rabbit	OECD 402 (EU B.3)	-
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	> 5000	Rabbit	Method not given	-
Alcohol ethoxylate		No data			

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		available		
alkyl polyglucoside	LD <sub>50</sub>	> 2000	Rabbit	OECD 402 (EU B.3)

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol	LC <sub>50</sub>	> 25.8 (vapour)	Rat	Method not given	6
alkyl polyglucoside		No data available			-
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	≥ 1 (dust)	Rat	OECD 403 (EU B.2)	6
Alcohol ethoxylate		No data available			
alkyl polyglucoside		No data available			

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Alcohol ethoxylates	No data available			
1-methoxy-2-propanol	Not irritant	Rat	OECD 404 (EU B.4)	
alkyl polyglucoside	Not irritant	Rabbit	OECD 404 (EU B.4)	
tetrasodium ethylene diamine tetraacetate	Not irritant	Rabbit	Non guideline test	
Alcohol ethoxylate	No data available			
alkyl polyglucoside	Irritant		OECD 404 (EU B.4)	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Alcohol ethoxylates	No data available			
1-methoxy-2-propanol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
alkyl polyglucoside	Severe damage	Rabbit	OECD 405 (EU B.5)	
tetrasodium ethylene diamine tetraacetate	Severe damage		Method not given	
Alcohol ethoxylate	No data available			
alkyl polyglucoside	Severe damage		OECD 405 (EU B.5)	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Alcohol ethoxylates	No data available			
1-methoxy-2-propanol	No data available			
alkyl polyglucoside	No data available			
tetrasodium ethylene diamine tetraacetate	No data available			
Alcohol ethoxylate	No data available			
alkyl polyglucoside	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Alcohol ethoxylates	No data available			
1-methoxy-2-propanol	Not sensitising	Guinea pig	Method not given	-
alkyl polyglucoside	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	-
tetrasodium ethylene diamine tetraacetate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	-
Alcohol ethoxylate	No data available			
alkyl polyglucoside	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Alcohol ethoxylates	No data available			
1-methoxy-2-propanol	No data available			-
alkyl polyglucoside	No data available			-
tetrasodium ethylene diamine tetraacetate	No data available			-
Alcohol ethoxylate	No data available			
alkyl polyglucoside	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)
Alcohol ethoxylates	No data available		No data available	

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1-methoxy-2-propanol	No evidence for mutagenicity, negative test results	Method not given	No data available	
alkyl polyglucoside	No evidence for mutagenicity, negative test results	Read across	No data available	
tetrasodium ethylene diamine tetraacetate	No evidence for mutagenicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
Alcohol ethoxylate	No data available		No data available	
alkyl polyglucoside	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)

## Carcinogenicity

Ingredient(s)	Effect
Alcohol ethoxylates	No data available
1-methoxy-2-propanol	No evidence for carcinogenicity, negative test results
alkyl polyglucoside	No evidence for carcinogenicity, weight-of-evidence
tetrasodium ethylene diamine tetraacetate	No evidence for carcinogenicity, weight-of-evidence
Alcohol ethoxylate	No data available
alkyl polyglucoside	No evidence for carcinogenicity, weight-of-evidence

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
Alcohol ethoxylates			No data available				
1-methoxy-2-propanol			No data available				No evidence for reproductive toxicity
alkyl polyglucoside			No data available		OECD 416, (EU B.35), oral		No evidence for reproductive toxicity
tetrasodium ethylene diamine tetraacetate			No data available				No evidence for reproductive toxicity
Alcohol ethoxylate			No data available				
alkyl polyglucoside	NOAEL	Developmental toxicity Maternal toxicity	1000	Rat	OECD 414 (EU B.31), oral OECD 421, oral		No evidence for reproductive toxicity

## 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
Alcohol ethoxylates		No data available				
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside	NOAEL	100	Rat	OECD 408 (EU B.26)	90	
tetrasodium ethylene diamine tetraacetate		No data available			-	
Alcohol ethoxylate		No data available				
alkyl polyglucoside	NOAEL	100	Rat	OECD 408 (EU B.26)		

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Alcohol ethoxylates		No data available				
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
Alcohol ethoxylate		No data available				
alkyl polyglucoside		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
Alcohol ethoxylates		No data available				
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	

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Alcohol ethoxylate		No data available				
alkyl polyglucoside		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
Alcohol ethoxylates			No data available					
1-methoxy-2-propanol			No data available					
alkyl polyglucoside			No data available					
tetrasodium ethylene diamine tetraacetate			No data available					
Alcohol ethoxylate			No data available					
alkyl polyglucoside			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
Alcohol ethoxylates	No data available
1-methoxy-2-propanol	No data available
alkyl polyglucoside	No data available
tetrasodium ethylene diamine tetraacetate	No data available
Alcohol ethoxylate	No data available
alkyl polyglucoside	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Alcohol ethoxylates	No data available
1-methoxy-2-propanol	No data available
alkyl polyglucoside	No data available
tetrasodium ethylene diamine tetraacetate	Not applicable
Alcohol ethoxylate	No data available
alkyl polyglucoside	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)
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol	LC <sub>50</sub>	> 1000	<i>Oncorhynchus mykiss</i>	Method not given	96
alkyl polyglucoside	LC <sub>50</sub>	100.81	<i>Brachydanio rerio</i>	ISO 7346	96
tetrasodium ethylene diamine tetraacetate	LC <sub>50</sub>	> 100	<i>Lepomis macrochirus</i>	OPP 72-1, static (EPA)	96
Alcohol ethoxylate		No data available			
alkyl polyglucoside	LC <sub>50</sub>	1 - 10	<i>Fish</i>	ISO 7346	-

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol	EC <sub>50</sub>	21100 - 25900	<i>Daphnia magna Straus</i>	Method not given	48
alkyl polyglucoside	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	OECD 202	48

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tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	DIN 38412, Part 11	48
Alcohol ethoxylate		No data available			
alkyl polyglucoside	EC <sub>50</sub>	7	<i>Daphnia magna Straus</i>	Method not given	48

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol	EC <sub>50</sub>	> 1000	<i>Pseudokirchneriella subcapitata</i>	Method not given	168
alkyl polyglucoside	EC <sub>50</sub>	27.22	<i>Desmodesmus subspicatus</i>	Method not given	72
tetrasodium ethylene diamine tetraacetate	EC <sub>50</sub>	> 100	<i>Scenedesmus obliquus</i>	88/302/EEC, Part C, static	72
Alcohol ethoxylate		No data available			
alkyl polyglucoside	EC <sub>50</sub>	10 - 100	<i>Not specified</i>	88/302/EEC, Part C, static	-

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol		No data available			-
alkyl polyglucoside	EC <sub>50</sub>	12.43	<i>Skeletonema costatum</i>	Method not given	3
tetrasodium ethylene diamine tetraacetate		No data available			-
Alcohol ethoxylate		No data available			
alkyl polyglucoside		No data available			-

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Alcohol ethoxylates		No data available			
1-methoxy-2-propanol	EC <sub>50</sub>	1000	<i>Activated sludge</i>	Method not given	3 hour(s)
alkyl polyglucoside	EC <sub>10</sub>	> 560	<i>Pseudomonas putida</i>	Method not given	6 hour(s)
tetrasodium ethylene diamine tetraacetate	EC <sub>20</sub>	> 500	<i>Activated sludge</i>	OECD 209	0.5 hour(s)
Alcohol ethoxylate		No data available			
alkyl polyglucoside	EC <sub>0</sub>	> 100	<i>Bacteria</i>	OECD 209	

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Alcohol ethoxylates		No data available				
1-methoxy-2-propanol		No data available				
alkyl polyglucoside	NOEC	1	<i>Brachydanio rerio</i>	Method not given	28 day(s)	
tetrasodium ethylene diamine tetraacetate	NOEC	>= 36.9	<i>Brachydanio rerio</i>	OECD 210	35 day(s)	
Alcohol ethoxylate		No data available				
alkyl polyglucoside	NOEC	1 - 10	<i>Not specified</i>	OECD 204	14 day(s)	

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Alcohol ethoxylates		No data available				
1-methoxy-2-propanol		No data available				
alkyl polyglucoside	NOEC	1	<i>Daphnia magna</i>	OECD 202	21 day(s)	
tetrasodium ethylene diamine tetraacetate	NOEC	25	<i>Daphnia magna</i>	OECD 211	21 day(s)	
Alcohol ethoxylate		No data available				



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		available			
alkyl polyglucoside	NOEC	1 - 10	<i>Daphnia sp.</i>	OECD 202	

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
Alcohol ethoxylates		No data available				
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
Alcohol ethoxylate		No data available				
alkyl polyglucoside		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
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate	LD <sub>50</sub>	156	<i>Eisenia fetida</i>	OECD 207	14	
alkyl polyglucoside		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate	NOEC	0.25 - 1.25			21	
alkyl polyglucoside		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
alkyl polyglucoside		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
alkyl polyglucoside		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
1-methoxy-2-propanol		No data available			-	
alkyl polyglucoside		No data available			-	
tetrasodium ethylene diamine tetraacetate		No data available			-	
alkyl polyglucoside		No data available			-	

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**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
1-methoxy-2-propanol	< 1 day(s)	Method not given	Rapidly photodegradable	

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
Alcohol ethoxylates					No data available
1-methoxy-2-propanol			96 % in 28 day(s)	OECD 301E	Readily biodegradable
alkyl polyglucoside			59%	OECD 301C	Readily biodegradable
tetrasodium ethylene diamine tetraacetate					Readily biodegradable
Alcohol ethoxylate					No data available
alkyl polyglucoside			88% in 28 day(s)	OECD 301E	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
Alcohol ethoxylates	No data available			
1-methoxy-2-propanol	0.37	Method not given	Low potential for bioaccumulation	
alkyl polyglucoside	0.07	Method not given	No bioaccumulation expected	
tetrasodium ethylene diamine tetraacetate	-13	Method not given	No bioaccumulation expected	
Alcohol ethoxylate	No data available			
alkyl polyglucoside	=< 0.07	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Alcohol ethoxylates	No data available				
1-methoxy-2-propanol	3.2		Method not given	Low potential for bioaccumulation	
alkyl polyglucoside	No data available				
tetrasodium ethylene diamine tetraacetate	1.8	<i>Lepomis macrochirus</i>	Method not given	Low potential for bioaccumulation	
Alcohol ethoxylate	No data available				
alkyl polyglucoside	No data available				

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
Alcohol ethoxylates	No data available				
1-methoxy-2-propanol	No data available				High potential for mobility in soil
alkyl polyglucoside	No data available				
tetrasodium ethylene diamine tetraacetate	No data available				Adsorption to solid soil phase is not expected
Alcohol ethoxylate	No data available				
alkyl polyglucoside	1.7		Method not given		

**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:** Non-dangerous goods**14.2 UN proper shipping name:** Non-dangerous goods**14.3 Transport hazard class(es):** Non-dangerous goods  
**Class:** -**14.4 Packing group:** Non-dangerous goods**14.5 Environmental hazards:** Non-dangerous goods**14.6 Special precautions for user:** Non-dangerous goods**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.**Hazchem code:** None allocated**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

<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>	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.
<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:** MS31000410**Version:** 01.0**Revision:** 2015-06-26**Full text of the H phrases mentioned in section 3:**

- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H332 - Harmful if inhaled.
- H336 - May cause drowsiness or dizziness.
- H400 - Very toxic to aquatic life.
- H412 - Harmful 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
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LD50 - Lethal Dose, 50% / Median Lethal dose
- STOT-RE - Specific target organ toxicity (repeated exposure)

**Suma Bio-Floor Cleaner**

- STOT-SE - Specific target organ toxicity (single exposure)
- EC No. - European Community Number

**End of Safety Data Sheet**