



## Suma Multi D2

Revision: 2019-03-31

Version: 07.2

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Suma Multi D2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses:

For professional use only.

AISE-P303 - Kitchen cleaner. Manual process

AISE-P304 - Kitchen cleaner. Spray and wipe manual process

AISE-P301 - General purpose cleaner. Manual process

AISE-P302 - General purpose cleaner. Spray and wipe manual process

**Uses advised against:** Uses other than those identified are not recommended

#### 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssebroeksedijk 2, 3542DN Utrecht, The Netherlands

#### Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

#### 1.4 Emergency telephone number

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

For medical or environmental emergency only:

call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

#### 2.2 Label elements



**Signal word:** Warning.

Contains 1,2-benzisothiazol-3(2H)-one (Benzisothiazolinone)

#### Hazard statements:

H319 - Causes serious eye irritation.

EUH208 - May produce an allergic reaction.

#### Further indications on the label:

Contains: preservative.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS #	REACH number	Classification	Notes	Weight percent
alkyl alcohol ethoxylate	[4]	69011-36-5	[4]	Acute Tox. 4 (H302)		3-10

## Suma Multi D2

				Eye Dam. 1 (H318)	
isotridecanol, ethoxylated	[4]	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	1-3
sodium alkylbenzenesulphonate	290-656-6	[1]	[1]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	1-3
1,2-benzisothiazol-3(2H)-one	220-120-9	2634-33-5	[6]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	0.01-0.1

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

[6] Exempted: biocidal active. See Article 15a of Regulation (EC) No 1907/2006.

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
<b>Eye contact:</b>	Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.
<b>Ingestion:</b>	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

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

<b>Inhalation:</b>	No known effects or symptoms in normal use.
<b>Skin contact:</b>	No known effects or symptoms in normal use.
<b>Eye contact:</b>	Causes severe irritation.
<b>Ingestion:</b>	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.

## 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.

## 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.

## Suma Multi D2

**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. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

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:

**Recommended monitoring procedures, if available:**

Additional exposure limits under the conditions of use, if available:

**DNEL/DMEL and PNEC values****Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkyl alcohol ethoxylate	-	-	-	-
isotridecanol, ethoxylated	[-]	[-]	[-]	[-]
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
alkyl alcohol ethoxylate	-	-	-	-
isotridecanol, ethoxylated	-	[-]	-	[-]
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
alkyl alcohol ethoxylate	-	-	-	-
isotridecanol, ethoxylated	-	[-]	-	[-]
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

DNEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkyl alcohol ethoxylate	-	-	-	No data available
isotridecanol, ethoxylated	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
alkyl alcohol ethoxylate	No data available	No data available	-	-
isotridecanol, ethoxylated	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

**Environmental exposure**

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
alkyl alcohol ethoxylate	No data available	No data available	-	-
isotridecanol, ethoxylated	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

## Suma Multi D2

alkyl alcohol ethoxylate	-	-	-	-
isotridecanol, ethoxylated	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
alkyl alcohol ethoxylate	-	-	-	-
isotridecanol, ethoxylated	-	-	-	-
sodium alkylbenzenesulphonate	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	-	-	-	-

**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:** 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 (EN 166).

**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

**Appropriate engineering controls:** Provide a good standard of general ventilation.  
**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**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

	Method / remark
<b>Physical State:</b> Liquid	
<b>Colour:</b> Clear, Blue	
<b>Odour:</b> Product specific	
<b>Odour threshold:</b> Not applicable	
<b>pH:</b> ≈ 11 (neat)	ISO 4316
<b>Dilution pH:</b> ≈ 9	ISO 4316
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
alkyl alcohol ethoxylate	> 200	Method not given	
isotridecanol, ethoxylated	No data available		
sodium alkylbenzenesulphonate	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		

## Suma Multi D2

**Flammability (liquid):** Not flammable.

**Flash point (°C):** not determined

**Sustained combustion:** Not applicable.

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

**Evaporation rate:** Not relevant for classification of this product.

**Flammability (solid, gas):** Not applicable to liquids

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

**Method / remark**

closed cup

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
isotridecanol, ethoxylated	[-]	[-]

**Method / remark**

**Vapour pressure:** Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
isotridecanol, ethoxylated	< 10		20
sodium alkylbenzenesulphonate	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		

**Method / remark**

**Vapour density:** Not determined

**Relative density:** ≈ 1.02 (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

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

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alkyl alcohol ethoxylate	Soluble	Method not given	20
isotridecanol, ethoxylated	Soluble	Method not given	20
sodium alkylbenzenesulphonate	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Method / remark**

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.

**Viscosity:** ≈ 80 mPa.s (20 °C)

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

**9.2 Other information**

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

**Corrosion to metals:** Not corrosive

Not relevant to classification of this product  
Weight of evidence

Substance data, dissociation constant, if available:

**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**

Reacts with acids.

**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): &gt;2000

**Eye irritation and corrosivity****Result:** Eye irritant 2      **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)
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 300-2000	Rat	OECD 423 (EU B.1 tris)	
isotridecanol, ethoxylated	LD <sub>50</sub>	> 300-2000	Rat	Weight of evidence	
sodium alkylbenzenesulphonate	LD <sub>50</sub>	> 1470	Rat	OECD 401 (EU B.1)	
1,2-benzisothiazol-3(2H)-one	LD <sub>50</sub>	> 2000	Rat		

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 2000	Rabbit	Method not given	
isotridecanol, ethoxylated	LD <sub>50</sub>	> 2000	Rabbit	Weight of evidence	
sodium alkylbenzenesulphonate		No data available			
1,2-benzisothiazol-3(2H)-one	LD <sub>50</sub>	> 2000	Rat	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
isotridecanol, ethoxylated		No data available			
sodium alkylbenzenesulphonate		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			

**Irritation and corrosivity**

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
isotridecanol, ethoxylated	Not irritant	Rabbit	OECD 404 (EU B.4)	
sodium alkylbenzenesulphonate	No data available			
1,2-benzisothiazol-3(2H)-one	Corrosive		Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
isotridecanol, ethoxylated	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium alkylbenzenesulphonate	No data available			
1,2-benzisothiazol-3(2H)-one	Severe damage		Method not given	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
isotridecanol, ethoxylated	No data available			
sodium alkylbenzenesulphonate	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			

**Sensitisation**

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
isotridecanol, ethoxylated	Not sensitising	Guinea pig	Method not given	

## Suma Multi D2

sodium alkylbenzenesulphonate	No data available			
1,2-benzisothiazol-3(2H)-one	Sensitising	Guinea pig		

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	No data available			
isotridecanol, ethoxylated	No data available			
sodium alkylbenzenesulphonate	No data available			
1,2-benzisothiazol-3(2H)-one	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 evidence of genotoxicity, negative test results	Method not given	No evidence of genotoxicity, negative test results	Method not given
isotridecanol, ethoxylated	No evidence for mutagenicity	Method not given Weight of evidence	No evidence for mutagenicity, negative test results	Method not given Weight of evidence
sodium alkylbenzenesulphonate	No data available		No data available	
1,2-benzisothiazol-3(2H)-one	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

## Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol ethoxylate	No evidence for carcinogenicity, weight-of-evidence
isotridecanol, ethoxylated	No evidence for carcinogenicity, weight-of-evidence
sodium alkylbenzenesulphonate	No data available
1,2-benzisothiazol-3(2H)-one	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	NOAEL	Teratogenic effects	> 50	Rat	Not known		No known significant effects or critical hazards
isotridecanol, ethoxylated	NOAEL	Maternal toxicity	> 250	Rat	Weight of evidence		Not toxic for reproduction
sodium alkylbenzenesulphonate			No data available				
1,2-benzisothiazol-3(2H)-one			No data available				

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
sodium alkylbenzenesulphonate		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
sodium alkylbenzenesulphonate		No data available				
1,2-benzisothiazol-3(2H)-one		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
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
sodium alkylbenzenesulphonate		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

## Suma Multi D2

		available			
--	--	-----------	--	--	--

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)	Effects on organ weights	
isotridecanol, ethoxylated	Oral	NOAEL	50	Rat	Weight of evidence	24 month(s)	Effects on body weight and food/water consumption Effects on organ weights	
sodium alkylbenzenesulphonate			No data available					
1,2-benzisothiazol-3(2H)-one			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	Not applicable
isotridecanol, ethoxylated	Not applicable
sodium alkylbenzenesulphonate	No data available
1,2-benzisothiazol-3(2H)-one	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	Not applicable
isotridecanol, ethoxylated	Not applicable
sodium alkylbenzenesulphonate	No data available
1,2-benzisothiazol-3(2H)-one	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	LC <sub>50</sub>	1 - 10	<i>Cyprinus carpio</i>	OECD 203 (EU C.1)	96
isotridecanol, ethoxylated	LC <sub>50</sub>	> 10 - 100	<i>Cyprinus carpio</i>	OECD 203 (EU C.1) Weight of evidence	96
sodium alkylbenzenesulphonate		No data available			
1,2-benzisothiazol-3(2H)-one	LC <sub>50</sub>	2.18	<i>Oncorhynchus mykiss</i>	OECD 203 (EU C.1)	

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Daphnia magna</i> Straus	OECD 202, static	48
isotridecanol, ethoxylated	EC <sub>50</sub>	> 10 - 100	<i>Daphnia magna</i> Straus	OECD 202, static	48
sodium alkylbenzenesulphonate		No data available			
1,2-benzisothiazol-3(2H)-one	EC <sub>50</sub>	2.94	<i>Daphnia</i>	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
isotridecanol, ethoxylated	EC <sub>50</sub>	> 10 - 100	<i>Desmodesmus subspicatus</i>	OECD 201, static Weight of evidence	72
sodium alkylbenzenesulphonate		No data available			



## Suma Multi D2

1,2-benzisothiazol-3(2H)-one	E <sub>r</sub> C <sub>50</sub>	0.11		OECD 201 (EU C.3)	72
------------------------------	--------------------------------	------	--	-------------------	----

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol ethoxylate		No data available			-
isotridecanol, ethoxylated		No data available			-
sodium alkylbenzenesulphonate		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol ethoxylate	EC <sub>10</sub>	> 10000	Activated sludge	DIN 38412 / Part 8	17 hour(s)
isotridecanol, ethoxylated	EC <sub>10</sub>	> 10000	Bacteria	DIN 38412 / Part 8	17 hour(s)
sodium alkylbenzenesulphonate		No data available			
1,2-benzisothiazol-3(2H)-one	EC <sub>20</sub>	3.3	Activated sludge	OECD 209	3 hour(s)

## 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				
isotridecanol, ethoxylated		No data available				
sodium alkylbenzenesulphonate		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated	EC <sub>10</sub>	2.6	<i>Daphnia magna</i>	OECD 211, semi-static	21 day(s)	Effects on reproduction
sodium alkylbenzenesulphonate		No data available				
1,2-benzisothiazol-3(2H)-one		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
alkyl alcohol ethoxylate		No data available			-	
isotridecanol, ethoxylated		No data available			-	
sodium alkylbenzenesulphonate		No data available				
1,2-benzisothiazol-3(2H)-one		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
alkyl alcohol ethoxylate	NOEC	220	<i>Eisenia fetida</i>		-	
isotridecanol, ethoxylated	NOEC	220	<i>Eisenia fetida</i>		-	

## Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate	NOEC	10	<i>Lepidium sativum</i>	OECD 208	-	
isotridecanol, ethoxylated	NOEC	10	<i>Lepidium sativum</i>	OECD 208	-	

## Suma Multi D2

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate		No data available			-	
isotridecanol, ethoxylated		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

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

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
isotridecanol, ethoxylated		CO <sub>2</sub> production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
sodium alkylbenzenesulphonate				OECD 301B	Readily biodegradable
1,2-benzisothiazol-3(2H)-one				Weight of evidence	Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
1,2-benzisothiazol-3(2H)-one	Sewage treatment plant simulation	Primary degradation	> 90%	OECD 303A	Biodegradable

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol ethoxylate	-		No bioaccumulation expected	
isotridecanol, ethoxylated	No data available		No bioaccumulation expected	
sodium alkylbenzenesulphonate	No data available			
1,2-benzisothiazol-3(2H)-one	0.7	OECD 107	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	-			No bioaccumulation expected	
isotridecanol, ethoxylated	No data available			No bioaccumulation expected	
sodium alkylbenzenesulphonate	No data available				
1,2-benzisothiazol-3(2H)-one	6.95		OECD 305		

**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

## Suma Multi D2

alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
isotridecanol, ethoxylated	No data available				Immobile in soil or sediment
sodium alkylbenzenesulphonate	No data available				
1,2-benzisothiazol-3(2H)-one	No data available				

**12.5 Results of PBT and vPvB assessment**

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

**12.6 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.

**European Waste Catalogue:**

20 01 29\* - detergents containing dangerous substances.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information****Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**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

**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 and the IBC Code:** Non-dangerous goods

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

UFI: YYE4-40RY-T005-QYWF

**Ingredients according to EC Detergents Regulation 648/2004**

non-ionic surfactants

5 - 15 %

anionic surfactants

< 5 %

Benzisothiazolinone, perfumes

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**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:** MSDS3418

**Version:** 07.2

**Revision:** 2019-03-31

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 1, 3, 8, 15, 16

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11

for toxicological information and section 12 for ecological information.

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

- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H400 - Very toxic to aquatic life.
- H402 - Harmful to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.

**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
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**