

Suma Multi Conc D2 Conc

Revision: 2014-02-06

Version: 08

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

1.1 Product identifier

Trade name: Suma Multi Conc D2 Conc

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

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

1.3 Details of the supplier of the safety data sheet

Diversey Ltd

Contact details

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Directive 1999/45/EC and corresponding national legislation.

Indication of danger

Xn - Harmful

Risk phrases:

R10 - Flammable.

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R37/38 - Irritating to respiratory system and skin.

2.2 Label elements



Xn - Harmful

Risk phrases:

R10 - Flammable.

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

R37/38 - Irritating to respiratory system and skin.

Safety phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Do not breath gas/fumes/vapor/spray phrase.

S37/39 - Wear suitable gloves and eye/face protection.

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.

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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (EC) 1272/2008	Notes	Weight percent
2-aminoethanol	205-483-3	141-43-5	01-2119486455-28	Xn;R20/21/22 C;R34 Xi;R37	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) Aquatic Chronic 3 (H412)		3-10
1-methoxy-2-propanol	203-539-1	107-98-2	01-2119457435-35	R10-67	Flam. Liq. 3 (H226) STOT SE 3 (H336)		1-3
propan-2-ol	200-661-7	67-63-0	01-2119457558-25	F;R11 Xi;R36 R67	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)		1-3

* Polymer.

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

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.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

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

SECTION 4: First aid measures**4.1 Description of first aid measures****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice.

Inhalation

Remove from source of exposure. Get medical attention.

Skin contact:

Not required under normal use. Immediately wash off with plenty of water. If irritation develops get medical attention.

Eye contact:

Wash off immediately with plenty of water. Get medical attention immediately.

Ingestion:

Remove material from mouth. Get medical attention immediately.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

Causes irritation.

Skin contact:

Causes irritation.

Eye contact:

Causes severe irritation.

Ingestion:

Causes irritation. Harmful.

Sensitisation:

No known effects.

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**

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable gloves and eye/face protection.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up

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

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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****Advice on safe handling:**

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. Use only with adequate ventilation. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

Prevention of fire and explosion:

No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage rooms / facilities:**

In accordance with local and national regulations.

Combined storage in storage rooms / facilities:

In accordance with local and national regulations. For incompatible materials see subsection 10.5.

Basic storage conditions

Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

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)	UK - Long term value(s)	UK - Short term value(s)
2-aminoethanol	1 ppm 2.5 mg/m ³	3 ppm 7.6 mg/m ³
1-methoxy-2-propanol	100 ppm 375 mg/m ³	150 ppm 560 mg/m ³
propan-2-ol	400 ppm 999 mg/m ³	500 ppm 1250 mg/m ³

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
2-aminoethanol	No data available	No data available	No data available	3.75
1-methoxy-2-propanol	No data available	No data available	No data available	3.3
propan-2-ol	No data available	No data available	No data available	26

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)
2-aminoethanol	No data available	No data available	No data available	1
1-methoxy-2-propanol	No data available	No data available	No data available	50.6
propan-2-ol	No data available	No data available	No data available	888

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)
2-aminoethanol	No data available	No data available	No data available	0.24
1-methoxy-2-propanol	No data available	No data available	No data available	18.1
propan-2-ol	No data available	No data available	No data available	319

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-aminoethanol	No data available	No data available	3.3	3.3
1-methoxy-2-propanol	553.5	No data available	No data available	369

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propan-2-ol	No data available	No data available	No data available	500
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DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
2-aminoethanol	No data available	No data available	2	2
1-methoxy-2-propanol	No data available	No data available	No data available	43.9
propan-2-ol	No data available	No data available	No data available	89

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)
2-aminoethanol	0.085	0.0085	0.025	100
1-methoxy-2-propanol	10	1	100	100
propan-2-ol	140.9	140.9	140.9	2251

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
2-aminoethanol	0.425	0.0425	0.035	0.025
1-methoxy-2-propanol	52.3	5.2	5.49	100
propan-2-ol	552	552	28	No data available

8.2 Exposure controls**General health and safety measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Do not breathe gases, vapour, spray or aerosols. Avoid contact with skin and eyes.

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:

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).

Hand protection:

Chemical-resistant protective gloves (EN 374).

Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.

Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber

Penetration time: >= 480 min

Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: >= 30 min

Material thickness: >= 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

Environmental exposure controls: No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 1.5

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:

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

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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

Physical State: Liquid
Colour: Clear, Blue
Odour: Slightly perfumed
Odour threshold: Not applicable
pH: ≈ 11 (neat)
Melting point/freezing point (°C): Not determined
Initial boiling point and boiling range (°C): Not determined

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
2-aminoethanol	169-171	Method not given	1013
1-methoxy-2-propanol	117-125	Method not given	1013
propan-2-ol	82	Method not given	1013

Method / remark

Flash point (°C): ≈ 37
Sustained combustion: This product with a flashpoint between 36°C and 60°C does not support combustion
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
2-aminoethanol	3.4	27
1-methoxy-2-propanol	1.48	13.7
propan-2-ol	2	13

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
2-aminoethanol	50	Method not given	20
1-methoxy-2-propanol	1170	Method not given	20
propan-2-ol	4200	Method not given	20

Method / remark

Vapour density: Not determined
Relative density: 1.04 g/cm³ (20°C)
Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
2-aminoethanol	1000	Method not given	20
1-methoxy-2-propanol	2000 Soluble	Method not given	20
propan-2-ol	Soluble	Method not given	

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

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: Not determined
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined
Corrosion to metals
(according to IMDG/ADR regulation): Not determined

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

Mixtures

No test data is available on the mixture

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)
2-aminoethanol	LD ₅₀	1515	Rat	OECD 401 (EU B.1)	
1-methoxy-2-propanol	LD ₅₀	4016	Rat	Method not given	
propan-2-ol	LD ₅₀	3570	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
2-aminoethanol	LD ₅₀	1025	Rabbit	Method not given	
1-methoxy-2-propanol	LD ₅₀	> 2000	Rabbit	Method not given	
propan-2-ol	LD ₅₀	> 2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-aminoethanol	LC ₀	> 1.3 (vapour)	Rat	Non guideline test	6
1-methoxy-2-propanol	LC ₅₀	> 25.8 (vapour)	Rat	Method not given	6
propan-2-ol	LC ₅₀	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	Corrosive	Rabbit	OECD 404 (EU B.4)	
1-methoxy-2-propanol	Not irritant	Rat	OECD 404 (EU B.4)	
propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	Severe damage	Rabbit	OECD 405 (EU B.5)	
1-methoxy-2-propanol	Not corrosive or irritant	Rabbit	OECD 405 (EU B.5)	
propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	Irritating to respiratory tract		Method not given	
1-methoxy-2-propanol	No data available			
propan-2-ol	No data available			

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Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
2-aminoethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
1-methoxy-2-propanol	Not sensitising	Guinea pig	Method not given	
propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
2-aminoethanol	No data available			
1-methoxy-2-propanol	No data available			
propan-2-ol	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
2-aminoethanol	NOAEL	300	Rat		75	
1-methoxy-2-propanol		No data available				
propan-2-ol		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
2-aminoethanol		No data available				
1-methoxy-2-propanol		No data available				
propan-2-ol		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
2-aminoethanol		No data available				
1-methoxy-2-propanol		No data available				
propan-2-ol		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
2-aminoethanol			No data available					
1-methoxy-2-propanol			No data available					
propan-2-ol			No data available					

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mixture data:

Based on available data, the classification criteria are not met.

Substance data, where relevant and available:

Carcinogenicity

Ingredient(s)	Effect
2-aminoethanol	No evidence for carcinogenicity, weight-of-evidence
1-methoxy-2-propanol	No evidence for carcinogenicity, negative test results
propan-2-ol	No data available

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
2-aminoethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476 (Mouse lymphoma)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
1-methoxy-2-propanol	No evidence for mutagenicity, negative test results	Method not given	No data available	

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propan-2-ol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
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Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
2-aminoethanol	NOAEL	Developmental toxicity	> 75	Rabbit	OECD 414 (EU B.31), oral	6 - 15 day(s)	No evidence for developmental toxicity No evidence for reproductive toxicity
1-methoxy-2-propanol			No data available				No evidence for reproductive toxicity
propan-2-ol			No data available				

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

Mixtures

No test 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)
2-aminoethanol	LC ₅₀	349	Cyprinus carpio	(EC) 440/2008, C.1	96
1-methoxy-2-propanol	LC ₅₀	> 1000	Oncorhynchus mykiss	Method not given	96
propan-2-ol	LC ₅₀	> 100	Pimephales promelas	Method not given	48

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-aminoethanol	EC ₅₀	65	Daphnia magna Straus	OECD 202, static	48
1-methoxy-2-propanol	EC ₅₀	21100 - 25900	Daphnia magna Straus	Method not given	48
propan-2-ol	EC ₅₀	> 100	Daphnia magna Straus	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
2-aminoethanol	NOEC	1	Pseudokirchneriella subcapitata	OECD 201	72
1-methoxy-2-propanol	EC ₅₀	> 1000	Pseudokirchneriella subcapitata	Method not given	168
propan-2-ol	EC ₅₀	> 100	Scenedesmus quadricauda	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
2-aminoethanol		No data available			
1-methoxy-2-propanol		No data available			
propan-2-ol		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
2-aminoethanol	EC ₅₀	> 1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
1-methoxy-2-propanol	EC ₅₀	1000	Activated sludge	Method not given	3 hour(s)
propan-2-ol	EC ₅₀	> 1000	Activated sludge	Method not given	

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-aminoethanol	NOEC	1.2	Oryzias latipes	OECD 210	30 day(s)	
1-methoxy-2-propanol		No data available				
propan-2-ol		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
2-aminoethanol	NOEC	0.85	Daphnia magna	OECD 211	21 day(s)	
1-methoxy-2-propanol		No data available				
propan-2-ol		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
2-aminoethanol		No data available				
1-methoxy-2-propanol		No data available				
propan-2-ol		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

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 ₅₀	Method	Evaluation
2-aminoethanol		DOC reduction	> 90 % in 21 day(s)	OECD 301A	Readily biodegradable
1-methoxy-2-propanol			96 % in 28 day(s)	OECD 301E	Readily biodegradable
propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
2-aminoethanol	- 1.91	OECD 107	No bioaccumulation expected	
1-methoxy-2-propanol	0.37	Method not given	Low potential for bioaccumulation	
propan-2-ol	0.05	OECD 107	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
2-aminoethanol	No data available				

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1-methoxy-2-propanol	3.2		Method not given	Low potential for bioaccumulation	
propan-2-ol	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
2-aminoethanol	0.067		Model calculation		Potential for mobility in soil, soluble in water Adsorption to solid soil phase is not expected
1-methoxy-2-propanol	No data available				High potential for mobility in soil
propan-2-ol	No data available				Potential for mobility in soil, soluble in water

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**ADR, RID, ADN, 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.**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.**Ingredients according to EC Detergents Regulation 648/2004**

non-ionic surfactants

>=30%

anionic surfactants

5 - 15%

perfumes, Citral, Limonene

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

MSDS code: MSDS3431**Version:** 08**Revision:** 2014-02-06**Reason for revision:**

Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

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

Suma Multi Conc D2 Conc

- R11 - Highly flammable.
- R20 - Harmful by inhalation.
- R21 - Harmful in contact with skin.
- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R36 - Irritating to eyes.
- R37 - Irritating to respiratory system.
- R67 - Vapours may cause drowsiness and dizziness.

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

End of Safety Data Sheet