Suma Multi Conc D2 Conc

Revision: 2015-04-01 *Version: 01.0*

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 Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details
Diversey Hygiene Sales Limited
Jamestown Road, Finglas, Dublin 11, Ireland
Tel: 01 8081808 (9am - 5pm Mon-Fri)
Email: dublin.orders@sealedair.com

1.4 Emergency telephone number
Tel: 01 8081808 (9am - 5pm Mon-Fri)
After hours: National Poisons Centre, Beaumont Hospital, Dublin 9
Tel: 01 8379964

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Corr. 1B (H314)
Acute Tox. 4 (H302)
STOT SE 3 (H335)

Classification in accordance with Directive 1999/45/EC and corresponding national legislation
Indication of danger
Xn - Harmful

Risk phrases:
R22 - Harmful if swallowed.
R41 - Risk of serious damage to eyes.
R37/38 - Irritating to respiratory system and skin.

2.2 Label elements

Signal word: Danger

Contains alkyl alcohol ethoxylate (Trideceth-8), 2-aminoethanol (Ethanolamine).

Hazard statements:
H314 - Causes severe skin burns and eye damage.
H302 - Harmful if swallowed.

H335 - May cause respiratory irritation.

Precautionary statements:
P260 - Do not breathe vapours.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.

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 number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
alkyl alcohol ethoxylate	Polymer*	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Xn;R22 Xi;R41		20-30
isotridecanol, ethoxylated	Polymer*	69011-36-5	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Xn;R22 Xi;R41		3-10
2-aminoethanol	205-483-3	141-43-5	01-2119486455-28	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	Xn;R20/21/22 C;R34 Xi;R37		3-10
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	287-335-8	85480-55-3	[1]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	Xn;R22 Xi;R38-41		3-10
1-methoxy-2-propanol	203-539-1	107-98-2	01-2119457435-35	Flam. Liq. 3 (H226) STOT SE 3 (H336)	R10-67		1-3
propan-2-ol	200-661-7	67-63-0	01-2119457558-25	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	F;R11 Xi;R36 R67		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 breathing is irregular or stopped, administer artificial respiration.
Inhalation Call a POISON CENTRE, doctor or physician if you feel unwell.
Skin contact: Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.
Eye contact: Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.
Ingestion: Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.
Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed
Inhalation: May cause respiratory irritation.
Skin contact: Causes severe burns.
Eye contact: Causes severe or permanent damage.
Ingestion: Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

4.3 Indication of any immediate medical attention and special treatment needed
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

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 protective clothing, gloves and eye/face protection.

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

6.3 Methods and material for containment and cleaning up
Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

6.4 Reference to other sections
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Measures to prevent fire and explosions:
No special precautions required.

Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Sealed Air. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Keep only in original 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)	Short term value(s)
2-aminoethanol	1 ppm 2.5 mg/m³	3 ppm 7.6 mg/m³
1-methoxy-2-propanol	100 ppm 375 mg/m³	150 ppm 568 mg/m³
propan-2-ol	200 ppm	400 ppm

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	No data available	No data available	No data available	No data available
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
2-aminoethanol	-	-	-	3.75
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with	No data available	No data available	No data available	No data available

ethanolamine				
1-methoxy-2-propanol	-	-	-	3.3
propan-2-ol	-	-	-	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)
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
2-aminoethanol	No data available	-	No data available	1
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available	No data available	No data available	No data available
1-methoxy-2-propanol	No data available	-	No data available	50.6
propan-2-ol	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)
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
2-aminoethanol	No data available	-	No data available	0.24
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available	No data available	No data available	No data available
1-methoxy-2-propanol	No data available	-	No data available	18.1
propan-2-ol	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
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
2-aminoethanol	-	-	3.3	3.3
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available	No data available	No data available	No data available
1-methoxy-2-propanol	553.5	-	-	369
propan-2-ol	-	-	-	500

DNEL inhalatory exposure - Consumer (mg/m³)

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	No data available	No data available
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
2-aminoethanol	-	-	2	2
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available	No data available	No data available	No data available
1-methoxy-2-propanol	-	-	-	43.9
propan-2-ol	-	-	-	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)
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
2-aminoethanol	0.085	0.0085	0.025	100
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available	No data available	No data available	No data available
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/m³)
alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
isotridecanol, ethoxylated	No data available	No data available	No data available	No data available
2-aminoethanol	0.425	0.0425	0.035	0.025
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available	No data available	No data available	No data available
1-methoxy-2-propanol	52.3	5.2	5.49	100
propan-2-ol	552	552	28	-

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: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment
Eye / face protection: Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.
Hand protection: Chemical-resistant protective gloves (EN 374).
Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.
Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:
Material: butyl rubber
Penetration time: >= 480 min
Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes:
Material: nitrile rubber
Penetration time: >= 30 min
Material thickness: >= 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection: Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.
Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 2.66

Appropriate engineering controls: Use only in well ventilated areas.
Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment
Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
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, Dark, 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)
alkyl alcohol ethoxylate	> 200	Method not given	
isotridecanol, ethoxylated	No data available		
2-aminoethanol	169-171	Method not given	1013
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available		
1-methoxy-2-propanol	117-125	Method not given	1013
propan-2-ol	82	Method not given	1013

Method / remark

Flash point (°C): < 60 closed cup
Sustained combustion: This product with a flashpoint between 21 °C and 60 °C does not support combustion — UN Manual of Tests and Criteria, section 32, L.2
Evaporation rate: Not determined
Flammability (solid, gas): Not applicable to liquids
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)
alkyl alcohol ethoxylate	Negligible	Method not given	20-25
isotridecanol, ethoxylated	No data available		
2-aminoethanol	50	Method not given	20
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available		
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: 1.05 g/cm³ (20 °C)
Solubility in / Miscibility with Water: Fully miscible

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
2-aminoethanol	1000	Method not given	20
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available		
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: ≈ 70 mPa.s (20 °C)
Explosive properties: Not explosive. Vapours may form explosive mixtures with air.
Oxidising properties: Not oxidising

9.2 Other information
Surface tension (N/m): Not determined
Corrosion to metals: Not corrosive

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
Keep container in a well-ventilated place. Keep in a cool place.

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): 1500
ATE - Dermal (mg/kg): >2000
ATE - Inhalatory, vapours (mg/l): >20

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_{50}	> 300 - 2000	Rat	OECD 423 (EU B.1 tris)	
isotridecanol, ethoxylated	LD_{50}	> 2000	Rat	OECD 423 (EU B.1 tris)	
2-aminoethanol	LD_{50}	1515	Rat	OECD 401 (EU B.1)	-
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available			
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)
alkyl alcohol ethoxylate	LD_{50}	> 2000	Rabbit	Method not given	
isotridecanol, ethoxylated		No data available			
2-aminoethanol	LD_{50}	1025	Rabbit	Method not given	-
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available			
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)
alkyl alcohol ethoxylate		No data available			
isotridecanol, ethoxylated		No data available			
2-aminoethanol		No mortality observed	Rat	Non guideline test	6
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available			
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
alkyl alcohol ethoxylate	Not irritant	Rabbit	OECD 404 (EU B.4)	
isotridecanol, ethoxylated	Not irritant	Rabbit	OECD 404 (EU B.4)	
2-aminoethanol	Corrosive	Rabbit	OECD 404 (EU B.4)	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available			
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
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
isotridecanol, ethoxylated	Severe damage	Rabbit	OECD 405 (EU B.5)	
2-aminoethanol	Severe damage	Rabbit	OECD 405 (EU B.5)	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available			
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
alkyl alcohol ethoxylate	No data available			
isotridecanol, ethoxylated	No data available			
2-aminoethanol	Irritating to respiratory tract		Method not given	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available			
1-methoxy-2-propanol	No data available			
propan-2-ol	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	No data available			
2-aminoethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	-
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available			
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
alkyl alcohol ethoxylate	No data available			
isotridecanol, ethoxylated	No data available			
2-aminoethanol	No data available			-
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available			
1-methoxy-2-propanol	No data available			-
propan-2-ol	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 data available		No data available	
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)
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available		No data available	
1-methoxy-2-propanol	No evidence for mutagenicity, negative test results	Method not given	No data available	
propan-2-ol	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 data available
2-aminoethanol	No evidence for carcinogenicity, weight-of-evidence
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available
1-methoxy-2-propanol	No evidence for carcinogenicity, negative test results
propan-2-ol	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		
isotridecanol, ethoxylated			No data available				
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
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine			No data available				
1-methoxy-2-propanol			No data available				No evidence for reproductive toxicity
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
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
2-aminoethanol	NOAEL	300	Rat		75	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available				
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
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
2-aminoethanol		No data available			-	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		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
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
2-aminoethanol		No data available			-	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		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
alkyl alcohol ethoxylate	Oral	NOAEL	50	Rat	Method not given	24 month(s)		
isotridecanol, ethoxylated			No data available					
2-aminoethanol			No data available					
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine			No data available					
1-methoxy-2-propanol			No data available					
propan-2-ol			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
isotridecanol, ethoxylated	No data available
2-aminoethanol	No data available
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available
1-methoxy-2-propanol	No data available
propan-2-ol	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol ethoxylate	No data available
isotridecanol, ethoxylated	No data available
2-aminoethanol	No data available
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available

1-methoxy-2-propanol	No data available
propan-2-ol	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_{50}	1 - 10	*Cyprinus carpio*	OECD 203	96
isotridecanol, ethoxylated	LC_{50}	10 - 100	*Leuciscus idus*	Method not given	96
2-aminoethanol	LC_{50}	349	*Cyprinus carpio*	(EC) 440/2008, C.1	96
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available			
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)
alkyl alcohol ethoxylate	EC_{50}	1 - 10	*Daphnia magna Straus*	OECD 202, static	48
isotridecanol, ethoxylated	EC_{50}	10 - 100	*Not specified*	Method not given	48
2-aminoethanol	EC_{50}	65	*Daphnia magna Straus*	OECD 202, static	48
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available			
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)
alkyl alcohol ethoxylate	EC_{50}	1 - 10	*Desmodesmus subspicatus*	OECD 201, static	72
isotridecanol, ethoxylated	EC_{50}	10 - 100	*Not specified*	Method not given	72
2-aminoethanol	NOEC	1	*Pseudokirchneriella subcapitata*	OECD 201	72
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available			
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)
alkyl alcohol ethoxylate		No data available			-
isotridecanol, ethoxylated		No data available			-
2-aminoethanol		No data available			-
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		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
alkyl alcohol ethoxylate	EC_{10}	> 10000	*Activated sludge*	DIN 38412 / Part 8	17 hour(s)
isotridecanol, ethoxylated	EC_{10}	> 10000	*Bacteria*	DIN 38412 / Part 8	17 hour(s)
2-aminoethanol	EC_{50}	> 1000	*Activated sludge*	DIN EN ISO 8192-OECD 209-88/302/EEC	3 hour(s)
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available			
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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
2-aminoethanol	NOEC	1.2	*Oryzias latipes*	OECD 210	30 day(s)	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available				
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
alkyl alcohol ethoxylate		No data available				
isotridecanol, ethoxylated		No data available				
2-aminoethanol	NOEC	0.85	*Daphnia magna*	OECD 211	21 day(s)	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		No data available				
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
alkyl alcohol ethoxylate		No data available			-	
isotridecanol, ethoxylated		No data available			-	
2-aminoethanol		No data available			-	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine		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:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol ethoxylate	NOEC	220	*Eisenia fetida*		-	
isotridecanol, ethoxylated		No data available			-	
2-aminoethanol		No data available			-	
1-methoxy-2-propanol		No data available			-	
propan-2-ol		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed

		(mg/kg dw soil)			time (days)	
alkyl alcohol ethoxylate	NOEC	10	*Lepidium sativum*	OECD 208	-	
isotridecanol, ethoxylated		No data available			-	
2-aminoethanol		No data available			-	
1-methoxy-2-propanol		No data available			-	
propan-2-ol		No data available			-	

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			-	
2-aminoethanol		No data available			-	
1-methoxy-2-propanol		No data available			-	
propan-2-ol		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			-	
2-aminoethanol		No data available			-	
1-methoxy-2-propanol		No data available			-	
propan-2-ol		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			-	
2-aminoethanol		No data available			-	
1-methoxy-2-propanol		No data available			-	
propan-2-ol		No data 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
alkyl alcohol ethoxylate		CO_2 production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
isotridecanol, ethoxylated		CO_2 production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
2-aminoethanol		DOC reduction	> 90 % in 21 day(s)	OECD 301A	Readily biodegradable
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine					No data available
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
alkyl alcohol ethoxylate	No data available			
isotridecanol, ethoxylated	No data available		No bioaccumulation expected	
2-aminoethanol	- 1.91	OECD 107	No bioaccumulation expected	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available			
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
alkyl alcohol ethoxylate	No data available				
isotridecanol, ethoxylated	No data available				
2-aminoethanol	No data available				
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available				
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
alkyl alcohol ethoxylate	No data available				Immobile in soil or sediment
isotridecanol, ethoxylated	No data available				Potential for adsorption to soil
2-aminoethanol	0.067		Model calculation		Potential for mobility in soil, soluble in water Adsorption to solid soil phase is not expected
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with ethanolamine	No data available				
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: 2491

14.2 UN proper shipping name:
Ethanolamine solution

14.3 Transport hazard class(es):
Class: 8
Label(s): 8

14.4 Packing group: III

14.5 Environmental hazards:
Environmentally hazardous: No
Marine pollutant: No

14.6 Special precautions for user: None known.

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

Other relevant information:

ADR
Classification code: C7
Tunnel restriction code: E
Hazard identification number: 80

IMO/IMDG
EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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: MS1001935 **Version:** 01.0 **Revision:** 2015-04-01

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 R, H and EUH phrases mentioned in section 3:
- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H412 - Harmful to aquatic life with long lasting effects.
- 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.
- R38 - Irritating to skin.
- R41 - Risk of serious damage to eyes.
- 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
- ATE - Acute Toxicity Estimate

End of Safety Data Sheet