

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Domestos Professional Toilet Limescale Remover

Revision: 2017-06-04 **Version:** 02.1

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

1.1 Product identifier

Trade name: Domestos Professional Toilet Limescale Remover Domestos is a registered trade mark and is used under licence of Unilever

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

Identified uses:

For professional use only.

AISE-P307 - Descaling agent. Manual process

AISE-P308 - Descaling agent. Spray and rinse manual process

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

1.3 Details of the supplier of the safety data sheet

Contact details

Unilever UK Ltd., Freepost ADM1000, London SW1A 2XX

Tel: 0800 776647

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@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

Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Met. Corr. 1 (H290)

2.2 Label elements



Signal word: Danger.

Contains alkylbenzenesulphonic acid (Dodecylbenzene Sulfonic Acid).

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H290 - May be corrosive to metals.

Precautionary statements:

P280 - Wear eye or face protection.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
sulphamic acid	226-218-8	5329-14-6	01-2119488633-28, 01-2119846728-23, 01-2119982121-44	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)		3-10
alkylbenzenesulphonic acid	287-494-3	85536-14-7	01-2111-9490234-40	Skin Corr. 1C (H314) Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)		3-10

^{*} Polymer.

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.

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

Inhalation: Get medical attention or advice if you feel unwell.

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated Skin contact:

clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove Eve contact: contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE,

doctor or physician.

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious Ingestion:

person. Get medical attention or advice if you feel unwell.

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: No known effects or symptoms in normal use.

Skin contact: Causes irritation.

Eye contact: Causes severe or permanent damage. Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

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

Wear 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).

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 eyes. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

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

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, 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)

- 5	514EE oral exposure Consumer (mg/kg bw)				
	Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
		effects	effects	effects	effects
I	sulphamic acid	-	-	-	1.06
Ī	alkylbenzenesulphonic acid	-	-	=	0.85

DNFL dermal exposure - Worker

BITEL delinar expectate Werker				
Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sulphamic acid	No data available	-	No data available	-
alkylbenzenesulphonic acid	-	-	=	170

DNEL dermal exposure - Consumer

Divide delinial expectator contrainer				
Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
sulphamic acid	No data available	-	No data available	-
alkylbenzenesulphonic acid	-	-	=	85

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sulphamic acid	-	-	-	7.5
alkylbenzenesulphonic acid	-	-	12	12

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sulphamic acid	-	-	-	1.85
alkylbenzenesulphonic acid	-	-	3	3

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)
sulphamic acid	0.3	0.03	0.3	200
alkylbenzenesulphonic acid	0.278	0.0287	0.0167	3.43

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sulphamic acid	0.3	0.03	3	-
alkylbenzenesulphonic acid	0.287	0.287	35	-

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:

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

No special requirements under normal use conditions. **Body protection:**

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.

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

ISO 4316 **pH**: < 2 (neat)

Melting point/freezing point (°C): Not determined Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sulphamic acid	205	Method not given	1013
alkylbenzenesulphonic acid	190	Method not given	

Method / remark

Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2) Evaporation rate: Not determined

Flammability (solid, gas): Not applicable to liquids

Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Not relevant to classification of this product

Method / remark See substance data

Substance data, vapour pressure

Vapour pressure: Not determined

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sulphamic acid	0	Method not given	20
alkylbenzenesulphonic acid	0.15		20

Method / remark

Vapour density: Not determined Relative density: ≈ 1.06 (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)
sulphamic acid	213	Method not given	20
alkylbenzenesulphonic acid	> 10	Method not given	20

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

Method / remark

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

Viscosity: ≈ 95 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: 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

Keep away from products containing chlorine-based bleaching agents or sulphites. Reacts with alkali and metals.

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): >5000

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)
sulphamic acid	LD 50	2065	Rat	Method not given	
alkylbenzenesulphonic acid	LD 50	> 1470	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/kg)			time (h)
sulphamic acid		No data			
		available			
alkylbenzenesulphonic acid	LD 50	> 2000	Rat	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure

	(mg/l)		time (h)
sulphamic acid	No data		
	available		
alkylbenzenesulphonic acid	No data		
	available	:	

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphamic acid	Irritant	Rabbit	OECD 404 (EU B.4)	
alkylbenzenesulphonic acid	Corrosive	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)		Result	Species	Method	Exposure time
ſ	sulphamic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	
ĺ	alkylbenzenesulphonic acid	Severe damage	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

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

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sulphamic acid	No data available			
alkylbenzenesulphonic acid	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sulphamic acid	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	
alkylbenzenesulphonic acid	No evidence for mutagenicity, negative	/	3, 3,	OECD 474 (EU B.12)
	lest results	473	lest results	D.12)

Carcinogenicity

Carcinogenicity	
Ingredient(s)	Effect
sulphamic acid	No data available
alkylbenzenesulphonic acid	No evidence for carcinogenicity, weight-of-evidence

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sulphamic acid			No data available				
alkylbenzenesulphonic acid	NOAEL	Teratogenic effects	300	Rat	Read across	20 day(s)	

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
sulphamic acid		No data				
		available				
alkylbenzenesulphonic acid		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
sulphamic acid		No data available				
alkylbenzenesulphonic acid		No data available				

Sub-chronic inhalation toxicity

	Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
ſ	sulphamic acid		No data				
			available				
ſ	alkylbenzenesulphonic acid		No data				
	·		available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
	route		(mg/kg bw/d)			time	organs affected	
sulphamic acid			No data					
			available					
alkylbenzenesulphonic	Oral	NOAEL	85	Rat	Read	9 month(s)		
acid					across			

STOT-single exposure

Ingredient(s)	Affected organ(s)
sulphamic acid	No data available
alkylbenzenesulphonic acid	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sulphamic acid	No data available
alkylbenzenesulphonic acid	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphamic acid	LC 50	70.3	Pimephales promelas	Method not given	96
alkylbenzenesulphonic acid	LC 50	1 - 10	Cyprinus carpio	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphamic acid		No data available			-
alkylbenzenesulphonic acid	EC 50	1 - 10	Daphnia magna Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphamic acid		No data			-
		available			
alkylbenzenesulphonic acid	EC 50	10 - 100	Desmodesmus	OECD 201 (EU C.3)	72
			subspicatus		

Aquatic snort-term toxicity - marine species					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sulphamic acid		No data			-
		available			
alkylbenzenesulphonic acid		No data			-
		available		i	

Impact on sewage plants - toxicity to bacteria

impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sulphamic acid	EC 10	> 1000	Pseudomonas putida	Method not given	16 hour(s)

		•				
alkylbenzenesulphonic a	acid		No da availa			
uatic long-term toxicity						
uatic long-term toxicity - fish Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphamic acid		No data available				
alkylbenzenesulphonic acid	NOEC	0.1 - 1	Lepomis macrochirus	Read across	28 day(s)	
uatic long-term toxicity - crustacea						
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphamic acid		No data available				
alkylbenzenesulphonic acid	NOEC	1 - 10	Not specified	Read across	32 day(s)	
uatic toxicity to other aquatic benthic organisms	including sodimont	dwolling organ	ieme if available:			
Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sulphamic acid		No data available			-	
alkylbenzenesulphonic acid		No data available			-	
sulphamic acid alkylbenzenesulphonic acid	LD 50	soil) No data available > 1000	Eisenia fetida	OECD 207	- 14	
aikyibenzenesuipnonic acid	LD 50	> 1000	Elsenia fetida	OECD 207	14	
rrestrial toxicity - plants, if available: Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
• • •	Endpoint	(mg/kg dw soil) No data	Species	Method		Effects observed
Ingredient(s)	EC 50	(mg/kg dw soil)	Species	Method OECD 208	time (days)	Effects observed
sulphamic acid alkylbenzenesulphonic acid		(mg/kg dw soil) No data available	Species		time (days)	Effects observed
sulphamic acid alkylbenzenesulphonic acid		(mg/kg dw soil) No data available	Species Species		time (days)	Effects observed Effects observed
sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available:	EC 50	(mg/kg dw soil) No data available 167		OECD 208	time (days) - 21 Exposure	
sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available: Ingredient(s)	EC 50	(mg/kg dw soil) No data available 167 Value No data		OECD 208	time (days) - 21 Exposure	
sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid	EC 50	(mg/kg dw soil) No data available 167 Value No data available No data available No data		OECD 208	Exposure time (days)	
sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid	EC 50	(mg/kg dw soil) No data available 167 Value No data available No data available No data		OECD 208	Exposure time (days)	
sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - beneficial insects, if available:	EC 50	(mg/kg dw soil) No data available 167 Value No data available No data available No data available Value (mg/kg dw	Species	OECD 208	Exposure time (days) - 21 Exposure time (days)	Effects observed
Ingredient(s) sulphamic acid alkylbenzenesulphonic acid restrial toxicity - birds, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid restrial toxicity - beneficial insects, if available: Ingredient(s)	EC 50	(mg/kg dw soil) No data available 167 Value No data available No data available Value (mg/kg dw soil) No data	Species	OECD 208	Exposure time (days)	Effects observed
Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - beneficial insects, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid	EC 50	(mg/kg dw soil) No data available 167 Value No data available No data available Value (mg/kg dw soil) No data available No data	Species	OECD 208	Exposure time (days) Exposure time (days) Exposure time (days)	Effects observed
Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - beneficial insects, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid	EC 50	(mg/kg dw soil) No data available 167 Value No data available No data available Value (mg/kg dw soil) No data available Value (mg/kg dw available Value (mg/kg dw available	Species	OECD 208	Exposure time (days) Exposure time (days) Exposure time (days)	Effects observed
Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - birds, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - beneficial insects, if available: Ingredient(s) sulphamic acid alkylbenzenesulphonic acid rrestrial toxicity - soil bacteria, if available:	Endpoint Endpoint	(mg/kg dw soil) No data available 167 Value No data available Value (mg/kg dw soil) No data available No data available Value Value	Species	OECD 208 Method Method	Exposure time (days) Exposure time (days) Exposure time (days) Exposure time (days)	Effects observed Effects observed

12.2 Persistence and degradability Abiotic degradationAbiotic 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 50	Method	Evaluation
sulphamic acid					Not applicable (inorganic substance)
alkylbenzenesulphonic acid			94 % in 28 day(s)	OECD 301A	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sulphamic acid	0.1		No bioaccumulation expected	
alkylbenzenesulphonic acid	3.2	Method not given	Low potential for bioaccumulation	

Bioconcentration factor (BCF)

bioconcentration ractor (BCI)									
Ingredient(s)	Value	Species	Method	Evaluation	Remark				
sulphamic acid	No data available								
alkylbenzenesulphonic	2 - 500		Method not given	Low potential for bioaccumulation					
acid									

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
sulphamic acid	No data available				
alkylbenzenesulphonic acid	No data available				Low mobillity in soil

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: Suitable cleaning agents: Dispose of observing national or local regulations.

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: 1760

14.2 UN proper shipping name:

Corrosive liquid, n.o.s. (sulphamic acid, alkylsulphonic acid)

14.3 Transport hazard class(es):

Class: 8 Label(s): 8

14.4 Packing group: |||

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 and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: C9 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

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.

<5% anionic surfactants

perfumes

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

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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.
- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation.
- · H319 Causes serious eye irritation.
- H412 Harmful 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

End of Safety Data Sheet