

Divosan Uniforce VS44

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Version: 02

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

1.1 Product identifier

Trade name: Divosan Uniforce VS44

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

Identified uses:

For industrial use only.

AISE-P801 - Food process cleaner. Cleaning In place (CIP) process

Disinfectant for closed processing systems (AISE_CS_I02 & AISE_CS_I04)

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

1.3 Details of the supplier of the safety data sheet

Diversey local operating company

Contact details

Diversey local operating company

1.4 Emergency telephone number

Diversey local operating company

This International SDS is for information only. It does not meet all applicable regulatory requirements and does not replace the relevant statutory data sheet for your country

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

C - Corrosive

Risk phrases:

R34 - Causes burns.

2.2 Label elements



C - Corrosive

Contains glycolic acid, sulphuric acid

Risk phrases:

R34 - Causes burns.

Safety phrases:

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

S28a - After contact with skin, wash immediately with plenty of water.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 - Wear suitable protective clothing, 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.

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

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glycolic acid	201-180-5	79-14-1	01-2119485579-17	C; R22-34	Skin Corr. 1B (H314) Acute Tox. 4 (H302)	10-20
sulphuric acid	231-639-5	7664-93-9	01-2119458838-20	C; R35	Skin Corr. 1A (H314) Met. Corr. 1 (H290)	3-10
sodium cumenesulphonate	248-983-7	28348-53-0	01-2119489411-37	Xi; R36	Eye Irrit. 2 (H319)	3-10
octenylsuccinic acid	249-244-1	28805-58-5	[1]	Xn; R20/21/22	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	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:

If unconscious place in recovery position and seek medical advice.

Inhalation

Remove from source of exposure. Get medical attention immediately.

Skin contact:

Rinse with plenty of water. Take off all contaminated clothing immediately. Get medical attention.

Eye contact;

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

Ingestion:

Remove material from mouth. Immediately drink 1-2 glasses of water or milk. 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:

Severe irritant, may cause respiratory tract irritation.

Skin contact:

Causes burns.

Eye contact:

Causes severe or permanent damage.

Ingestion:

Causes burns. Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

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

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).

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. 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.

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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. Store away from products containing chlorine-based bleaching agents or sulphites.

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)	EU - Long term value(s)	EU - Short term value(s)	UK - Long term value(s)	UK - Short term value(s)
sulphuric acid	0.05 mg/m ³		0.05 mg/m ³ mist	

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
glycolic acid	No data available	No data available	No data available	0.75
sulphuric acid	No data available	No data available	No data available	No data available
sodium cumenesulphonate	No data available	No data available	No data available	No data available
octenylsuccinic acid	No data available	No data available	No data available	No data available

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)
glycolic acid	No data available	No data available	No data available	57.69
sulphuric acid	No data available	No data available	No data available	No data available
sodium cumenesulphonate	No data available	No data available	No data available	No data available
octenylsuccinic acid	No data available	No data available	No data available	No data available

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)
glycolic acid	No data available	No data available	No data available	28.85
sulphuric acid	No data available	No data available	No data available	No data available
sodium cumenesulphonate	No data available	No data available	No data available	No data available
octenylsuccinic acid	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
glycolic acid	9.2	9.2	1.53	10.56
sulphuric acid	0.1	No data available	0.05	No data available
sodium cumenesulphonate	No data available	No data available	No data available	No data available
octenylsuccinic acid	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
glycolic acid	2.3	2.3	No data available	2.6
sulphuric acid	No data available	No data available	No data available	No data available
sodium cumenesulphonate	No data available	No data available	No data available	No data available
octenylsuccinic acid	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

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Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
glycolic acid	0.0321	0.0031	0.312	7
sulphuric acid	0.0025	0.00025	No data available	8.8
sodium cumenesulphonate	No data available	No data available	No data available	No data available
octenylsuccinic acid	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
glycolic acid	0.115	0.0115	0.007	No data available
sulphuric acid	0.002	0.002	No data available	No data available
sodium cumenesulphonate	No data available	No data available	No data available	No data available
octenylsuccinic acid	No data available	No data available	No data available	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. 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: \geq 480 min

Material thickness: \geq 0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time: \geq 30 min

Material thickness: \geq 0.4 mm

Body protection:

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

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.

Respiratory protection:

No special requirements under normal use conditions.

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 (%): 2.5

Appropriate engineering controls: The product is intended to be used in closed systems.

Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment .

Eye / face protection:

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

If the product is applied in a closed system, as recommended, no respiratory protection equipment will be required.

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

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Method / remark

Physical State: Liquid
Colour: Clear Pale Yellow
Odour: Product specific
Odour threshold: Not applicable
pH: < 2 (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)
glycolic acid	112	Method not given	1013
sulphuric acid	310-335	Method not given	
sodium cumenesulphonate	> 100	Method not given	
octenylsuccinic acid	No data available		

Method / remark

Flash point (°C): Not applicable.
Sustained combustion: Not determined
Evaporation rate: Not determined
Flammability (solid, gas): Not determined
Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
glycolic acid	0.41	Method not given	25
sulphuric acid	10	Method not given	20
sodium cumenesulphonate	No data available		
octenylsuccinic acid	No data available		

Method / remark

Vapour density: Not determined
Relative density: 1.09 g/cm³ (20°C)
Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
glycolic acid	> 300	Method not given	22
sulphuric acid	No data available		
sodium cumenesulphonate	Soluble		
octenylsuccinic acid	No data available		

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

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not 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:

Ingredient(s)	Value	Method	Temperature (°C)
sulphuric acid	1.92 (pKa)	Method not given	

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****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)
glycolic acid	LD ₅₀	2040	Rat	Method not given	
sulphuric acid	LD ₅₀	2140	Rat	Method not given	
sodium cumenesulphonate	LD ₅₀	> 7000	Rat	Method not given	
octenylsuccinic acid		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
glycolic acid		No data available			
sulphuric acid		No data available			
sodium cumenesulphonate	LD ₅₀	> 2000	Rabbit	Method not given	
octenylsuccinic acid		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
glycolic acid	LC ₅₀	3.6	Rat	Method not given	
sulphuric acid	LC ₅₀	0.375	Rat	Method not given	
sodium cumenesulphonate	LC ₅₀	> 770	Rat	Method not given	4
octenylsuccinic acid		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
glycolic acid	Corrosive	Rabbit	Method not given	
sulphuric acid	Corrosive	Rabbit	Method not given	
sodium cumenesulphonate	No data available			
octenylsuccinic acid	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
glycolic acid	Corrosive	Rabbit	Method not given	
sulphuric acid	Corrosive	Rabbit	Method not given	
sodium cumenesulphonate	Irritant		Method not given	
octenylsuccinic acid	No data available			

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Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
glycolic acid	No data available			
sulphuric acid	No data available			
sodium cumenesulphonate	No data available			
octenylsuccinic acid	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
glycolic acid	Not sensitising	Guinea pig	Method not given	
sulphuric acid	Not sensitising			
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
octenylsuccinic acid	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
glycolic acid	No data available			
sulphuric acid	No data available			
sodium cumenesulphonate	No data available			
octenylsuccinic acid	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
glycolic acid		No data available				
sulphuric acid		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534		OECD 408 (EU B.26)	90	
octenylsuccinic 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
glycolic acid		No data available				
sulphuric acid		No data available				
sodium cumenesulphonate	NOAEL	440	Mouse	Method not given	90	
octenylsuccinic 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
glycolic acid		No data available				
sulphuric acid	TCL ₀	3	Human	Method not given	non-standard	
sodium cumenesulphonate		No data available				
octenylsuccinic acid		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
glycolic acid			No data available					
sulphuric acid			No data available					
sodium cumenesulphonate	Dermal	NOAEL	727	Mouse	Method not given	24 month(s)		
octenylsuccinic acid			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

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Carcinogenicity

Ingredient(s)	Effect
glycolic acid	No data available
sulphuric acid	No evidence for carcinogenicity, negative test results
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
octenylsuccinic acid	No data available

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
glycolic acid	No data available		No evidence of genotoxicity, negative test results	Method not given
sulphuric acid	No data available		No data available	
sodium cumenesulphonate	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
octenylsuccinic acid	No data available		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
glycolic acid			No data available				No evidence for reproductive toxicity
sulphuric acid			No data available				
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 3000	Rat	Non guideline test		
octenylsuccinic acid			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)
glycolic acid	LC ₅₀	164	Pimephales promelas	Method not given	96
sulphuric acid	LC ₅₀	16 - 28	Lepomis macrochirus	Method not given	96
sodium cumenesulphonate	LC ₅₀	> 1000	Fish	EPA-OPPTS	96
octenylsuccinic acid		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
glycolic acid	EC ₅₀	141	Daphnia magna Straus	Method not given	48
sulphuric acid	EC ₅₀	29	Daphnia magna Straus	Method not given	24
sodium cumenesulphonate	EC ₅₀	> 1000	Daphnia	EPA-OPPTS	48
octenylsuccinic acid		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
glycolic acid		No data available			
sulphuric acid	EC ₅₀	> 100	Desmodesmus subspicatus	Method not given	72
sodium cumenesulphonate	E _r C ₅₀	310	Not specified		72
octenylsuccinic acid		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)

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glycolic acid		No data available			
sulphuric acid		No data available			
sodium cumenesulphonate		No data available			
octenylsuccinic acid		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
glycolic acid		No data available			
sulphuric acid	EC ₅₀	58	Activated sludge	Method not given	120 hour(s)
sodium cumenesulphonate	E _r C ₅₀	> 1000	Bacteria	OECD 209	3 hour(s)
octenylsuccinic acid		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
glycolic acid		No data available				
sulphuric acid	NOEC	0.31	Salvelinus fontinalis	Method not given		
sodium cumenesulphonate		No data available				
octenylsuccinic acid		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
glycolic acid		No data available				
sulphuric acid	NOEC	0.15	Daphnia magna	Method not given		
sodium cumenesulphonate		No data available				
octenylsuccinic acid		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if 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:

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
glycolic acid					Readily biodegradable
sulphuric acid					Not applicable (inorganic substance)
sodium cumenesulphonate					Not readily biodegradable.
octenylsuccinic acid					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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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
glycolic acid	-1.07	Method not given	No bioaccumulation expected	
sulphuric acid	No data available		No bioaccumulation expected	
sodium cumenesulphonate	-1.1	Method not given	Low potential for bioaccumulation	
octenylsuccinic acid	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
glycolic acid	No data available				
sulphuric acid	No data available				
sodium cumenesulphonate	No data available				
octenylsuccinic acid	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
glycolic acid	No data available				
sulphuric acid	No data available				Low potential for adsorption to soil
sodium cumenesulphonate	No data available				
octenylsuccinic acid	No data available				

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

Dispose of observing national or local regulations.

European Waste Catalogue:

20 01 14* - acids.

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:** 3265**14.2 UN proper shipping name:**

Corrosive liquid, acidic, organic, n.o.s. (glycolic acid)

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:** C3

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

anionic surfactants < 5%
disinfectants

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: MS1000275

Version: 02

Revision: 2013-05-14

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

- R34 - Causes burns.
- R22 - Harmful if swallowed.
- R35 - Causes severe burns.
- R36 - Irritating to eyes.
- R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.

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