

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

Revision: 2020-12-14

# Zenith 3F Concentrated Sinkwash

Version: 01.0

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

1.1 Product identifier Trade name: Zenith 3F Concentrated Sinkwash

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

Identified uses: For professional use only. AISE-P201 - Dishwash product. Manual process Uses advised against: Uses other than those identified are not recommended

# 1.3 Details of the supplier of the safety data sheet

Diversey Ltd, Weston Favell Centre, Northampton NN3 8PD, United Kingdom

### **Contact details**

Zenith Hygiene Group A1M Business Centre Dixons Hill Road Welham Green Herts AL9 7JE www.zhgplc.com 01707 270260 helpdesk@zhgplc.com

# 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible) For medical or environmental emergency only: call 0800 052 0185

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

2.2 Label elements



Signal word: Warning.

### Hazard statements:

H319 - Causes serious eye irritation.

# 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	Notes	Weight percent
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	-	01-2119513401-57	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3		3-10

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				(H412)	
Amines, C12-14 (even numbered)-alkyldimethyl,	931-292-6	-	01-2119490061-47	Acute Tox. 4 (H302)	0.1-1
N-oxides				Skin Irrit. 2 (H315)	
				Eye Dam. 1 (H318)	
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 2	
				(H411)	

Workplace exposure limit(s), if available, are listed in subsection 8.1. For the full text of the H and EUH phrases mentioned in this Section, see Section 16. ATE, if available, are listed in section 11.

# SECTION 4: First aid measures

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

No known effects or symptoms in normal use.

No known effects or symptoms in normal use.

# SECTION 5: Firefighting measures

# 5.1 Extinguishing media

Skin contact:

Eye contact:

Ingestion:

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

Causes severe irritation.

# 5.2 Special hazards arising from the substance or mixture

No special hazards known.

#### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

# **SECTION 6:** Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

### 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. Wash hands before breaks and at the end of workday. Use only with adequate ventilation. Do not mix with other products. See chapter 8.2, Exposure controls / Personal protection.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

# 7.3 Specific end use(s)

No specific advice for end use available.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

# Recommended monitoring procedures, if available:

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

# **DNEL/DMEL and PNEC values**

Human exposure DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene,	-	-	-	12.95
sodium salts				
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	0.44

#### 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)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available	-	No data available	2158.33
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available	-	0.27 %	11

#### 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)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene,	No data available	-	No data available	1295
sodium salts				
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available	-	0.27 %	5.5

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-	-	-	152.22
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	6.2

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene,	-	-	-	45.04
sodium salts				
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	1.53

#### **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)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene,	0.024	0.0024	0.0197	4
sodium salts				
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	0.0335	0.00335	0.0335	24

Environmental exposure - PNEC, continued

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Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	0.767	0.0767	1.21	-
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	5.24	0.524	1.02	-

# 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 <u>undiluted</u> product: Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. No special requirements under normal use conditions.		
Personal protective equipment Eye / face protection: Hand protection: Body protection:	No special requirements under normal use conditions. Not applicable. No special requirements under normal use conditions.		
Respiratory protection:	No special requirements under normal use conditions.		
Environmental exposure controls:	No special requirements under normal use conditions.		
Recommended safety measures for handling the <u>diluted</u> product:			

Recommended maximum concentration (% w/w): 0.5

Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. No special requirements under normal use conditions.
Personal protective equipment Eye / face protection: Hand protection: Body protection: Respiratory protection:	No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements under normal use conditions 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 , Green	
Odour: Product specific	
Odour threshold: Not applicable	
<b>pH</b> ≈ 7 (neat)	ISO 4316
<b>Dilution pH:</b> $\approx$ 7 (0.5%)	ISO 4316
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	Method	Atmospheric pressure
	(°C)		(hPa)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available		
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	> 100	Method not given	

Method / remark

Flammability (liquid): Not flammable. 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:

# Vapour pressure: Not determined

# Method / remark

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	< 0.001	Method not given	25
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	< 10	Method not given	25

# Vapour density: Not determined Relative density: ≈ 1.02 (20 °C) Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Soluble	Method not given	20
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	409.5 Soluble	Method not given	20

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

# Autoignition temperature: Not determined

Decomposition temperature: Not applicable. Viscosity: ≈ 275 mPa.s (20 °C) Explosive properties: Not explosive. Oxidising properties: Not oxidising.

# 9.2 Other information

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

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

None known under normal use conditions.

# 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): >2000

**Eye irritation and corrosivity Result:** Eye irritant 2

Method: Weight of evidence

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

# Method / remark

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

Method /	remark

DM-006 Viscosity - Standard

Not relevant to classification of this product Weight of evidence

# Acute toxicity

Acute oral toxicity Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene,	LD 50	> 2000	Rat	OECD 401 (EU B.1)		Not established
sodium salts						
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LD 50	> 300 - 2000	Rat	OECD 401 (EU B.1)		Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene,	LD 50	6300	Rabbit	OECD 402 (EU B.3)		6300
sodium salts						
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LD 50	> 5000	Rat	OECD 402 (EU B.3)		5000

# Acute inhalative toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
		(mg/l)			time (h)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LC 50	> 52 (mist)	Rat	OECD 403 (EU B.2)	4
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data			
		available			

# Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust	ATE - inhalation, mist	ATE - inhalation,	ATE - inhalation, gas
	(mg/l)	(mg/l)	vapour (mg/l)	(mg/l)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene,	Not established	Not established	Not established	Not established
sodium salts				
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Not established	Not established	Not established	Not established

#### Irritation and corrosivity Skin irritation and corrosivity

	Ingredient(s)	Result	Species	Method	Exposure time
Γ	sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4)	
	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Irritant	Rabbit	OECD 404 (EU B.4)	

# Eye irritation and corrosivity

	Ingredient(s)	Result	Species	Method	Exposure time
Γ	sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Severe damage	Rabbit	OECD 405 (EU B.5)	
	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Severe damage	Rabbit	OECD 405 (EU B.5)	

# Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available			
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
	-		GPMT	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
	-		Buehler test	

# Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available			
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	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)
	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	Method not given
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No data available	

Carcinogenicity

Ingredient(s) Effect	
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[	sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No evidence for carcinogenicity, negative test results
ſ	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No evidence for carcinogenicity, negative test results

Toxicity for reproduction							
Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts			No data available				No evidence for teratogenic effects
Amines, C12-14 (even numbered)-alkyldimeth yl, N-oxides	-	Teratogenic effects	25	Rat	Non guideline test		

# Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
	-	(mg/kg bw/d)			time (days)	affected
sulphonic acids, C14-16-alkane hydroxy and		No data				
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,	NOAEL	13		OECD 422,		
N-oxides				oral		

# Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sulphonic acids, C14-16-alkane hydroxy and		No data				
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data				
N-oxides		available				

# Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sulphonic acids, C14-16-alkane hydroxy and		No data				
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data				
N-oxides		available				

# Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Oral	NOAEL	259	Rat	Method not given	24 month(s)		
Amines, C12-14 (even numbered)-alkyldimeth yl, N-oxides			No data available					

# STOT-single exposure

Ingredient(s)	Affected organ(s)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available

#### STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available

# Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

# 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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LC 50	4.2	Brachydanio	OECD 203 (EU C.1)	96
			rerio		
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LC 50	> 2.67 - 3.46	Fish	OECD 203, static	96

Aquatic short-term toxicity - crustacea					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	EC 50	4.53	Ceriodaphnia sp.	OECD 202 (EU C.2)	48
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	EC 50	3.1	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)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	EC 50	5.2		OECD 201 (EU C.3)	72
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	EC 50	0.1428	Not specified	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		No data available			-
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available			-

# Impact on sewage plants - toxicity to bacteria

Ingredient(s)		Value (mg/l)	Inoculum	Method	Exposure time
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	EC 50	230		OECD 209	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	EC 10	> 24	Bacteria	Non guideline test	18 hour(s)

# Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphonic acids, C14-16-alkane hydroxy and		No data				
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,	NOEC	0.42	Not specified		302 day(s)	
N-oxides						

#### Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/l)			time	
sulphonic acids, C14-16-alkane hydroxy and		No data				
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,	NOEC	0.7	Daphnia	Method not	21 day(s)	
N-oxides			magna	given		

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		sediment)				
sulphonic acids, C14-16-alkane hydroxy and		No data			-	
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data			-	
N-oxides		available				

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
sulphonic acids, C14-16-alkane hydroxy and		No data				
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data			-	
N-oxides		available				

### Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sulphonic acids, C14-16-alkane hydroxy and		No data			-	
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data			-	
N-oxides		available				

# Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (davs)	Effects observed
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		No data available			-	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available			-	

#### Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
sulphonic acids, C14-16-alkane hydroxy and		No data			-	
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data			-	
N-oxides		available				

# Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw soil)			time (days)	
sulphonic acids, C14-16-alkane hydroxy and		No data			-	
C14-16-alkene, sodium salts		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data			-	
N-oxides		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
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Activated sludge, aerobe	CO <sub>2</sub> production	> 80 % in 28 day(s)	OECD 301B	Readily biodegradable
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		CO <sub>2</sub> production	90% in 28 day(s)	OECD 301B	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)

Fatulion coencient n-octanol/water (log r	(UW)			
Ingredient(s)	Value	Method	Evaluation	Remark
sulphonic acids, C14-16-alkane hydroxy	-1.3	(EC) 440/2008, A.8	No bioaccumulation expected	
and C14-16-alkene, sodium salts				
Amines, C12-14 (even	0.93	(EC) 440/2008, A.8	No bioaccumulation expected	
numbered)-alkyldimethyl, N-oxides				

#### Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sulphonic acids,	No data available				
C14-16-alkane hydroxy					
and C14-16-alkene,					
sodium salts					
Amines, C12-14 (even	No data available				

numbered)-alkyldimeth			
yl, N-oxides			

### 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
sulphonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	No data available				Low potential for adsorption to soil
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	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: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

# SECTION 15: Regulatory information

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

# EU regulations:

Regulation (EC) No. 1907/2006 - REACH
 Regulation (EC) No 1272/2008 - CLP

• Regulation (EC) No. 648/2004 - Detergents regulation

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

UFI: NA0E-S1XD-T003-D7K0

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

anionic surfactants amphoteric surfactants, non-ionic surfactants Sodium Benzoate, 2-Bromo-2-Nitropropane-1,3-Diol, perfumes

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

5 - 15 %

< 5 %

Seveso - Classification: Not classified

#### 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.H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects.
- 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 • LD50 - Lethal Dose, 50% / Median Lethal dose
- · LC50 Lethal Concentration, 50% / Median Lethal Concentration
- EC50 effective concentration, 50%
- NOEL No observed effect level
- NOAEL No observed adverse effect level
- OECD Organization for Economic Cooperation and Development

End of Safety Data Sheet