

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# **Sun Professional Rinse Aid**

Revision: 2019-07-17

Version: 01.2

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

#### 1.1 Product identifier

**Trade name:** Sun Professional Rinse Aid Sun 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: AISE-P204 - Rinse aid. Automatic process AISE-C6 - Machine dishwashing (powder, liquid, tablet) for consumer use 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 Ltd Weston Favell Centre, Northampton NN3 8PD, United Kingdom Tel: 01604 405311, Fax: 01604 406809 Regulatory Email: customerservice.uk@diversey.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

# 2.2 Label elements

Contains glutaral (Glutaral)

### Hazard statements:

EUH208 - May produce an allergic reaction.

### **Precautionary statements:**

P102 - Keep out of reach of children.

# Further indications on the label:

Contains: preservative.

### 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
alkyl alcohol alkoxylate	[4]	111905-53-4	[4]	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)		3-10
alkyl alcohol alkoxylate	[4]	9003-11-6	[4]	Aquatic Chronic 2 (H411)		1-3
sodium cumenesulphonate	239-854-6	15763-76-5	01-2119489411-37	Eye Irrit. 2 (H319)		1-3
glutaral	203-856-5	111-30-8	01-2119455549-26	Acute Tox. 3 (H301) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Resp. Sens. 1 (H334) Aquatic Acute 1 (H400) Aquatic Chronic 2		0.01-0.1

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(H411) Met. Corr. 1 (H290)
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For the full text of the 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 Inhalation: Get medical attention or advice if you feel unwell. Skin contact: If skin irritation occurs: Get medical advice or attention. Wash skin with plenty of lukewarm, gently flowing water. Eye contact: If irritation occurs and persists, get medical attention. Rinse cautiously with water for several minutes. Get medical attention or advice if you feel unwell. Immediately drink 1 glass of water. Rinse mouth. Ingestion: 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:	No known effects or symptoms in normal use.
Eye contact:	No known effects or symptoms in normal use.
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

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

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 Diversey. 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. Use personal protective equipment as required. 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 packaging. 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)	UK - Long term	UK - Short term
	value(s)	value(s)
glutaral	0.05 ppm	0.05 ppm
	0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>

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 - Systemic	•	Long term - Systemic
	effects	effects	effects	effects
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	3.8
glutaral	-	-	-	-

#### 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 alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	136.25
glutaral	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)
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	No data available
sodium cumenesulphonate	-	-	-	68.1
glutaral	No data available	-	No data available	-

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

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	No data available
sodium cumenesulphonate	-	-	-	26.9
glutaral	-	-	0.0106	-

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

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	-	-	-	6.6
glutaral	-	-	-	-

#### 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 alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	0.23	0.023	2.3	100
glutaral	0.0025	0.00025	0.006	0.8

Environmental exposure - PNEC, continued

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Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
sodium cumenesulphonate	0.862	0.0862	0.037	-
glutaral	0.091	0.0009	0.03	-

## 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 product:</u> 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. Avoid direct contact and/or splashes where possible. Train personnel.
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 (EN 166).
Hand protection:	No special requirements under normal use conditions.
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.

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (%): 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:	No special requirements under normal use conditions.
Hand protection: Body protection:	No special requirements under normal use conditions. 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

Physical State: Liquid
Colour: Clear, Blue
Odour: Product specific
Odour threshold: Not applicable
pH: ≈ 7 (neat)
Melting point/freezing point (°C): Not determined
Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product

Method / remark

Substance data, boiling point

Ingredient(s)	Value (°C)	Atmospheric pressure (hPa)	
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	Product decomposes before boiling		
sodium cumenesulphonate	No data available		
glutaral	101.5	Method not given	987.1

Method / remark

Flammability (liquid): Not determined. 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 determined

### Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

#### Vapour pressure: Not determined

# Method / remark

Method / remark

Method / remark

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	< 10		20
sodium cumenesulphonate	No data available		
glutaral	2000	Method not given	20.1

# Vapour density: Not determined Relative density: $\approx 1.02 \ (20 \ ^{\circ}C)$ Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	Soluble	Non-experimental data	
sodium cumenesulphonate	493 Soluble	493 Soluble Method not given	
glutaral	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: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising.

#### 9.2 Other information

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

Not relevant to classification of this product

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

No data is available on the mixture.

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

# Acute toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	LD 50	≥ 1000	Rat	Method not given	
alkyl alcohol alkoxylate	LD 50	> 4000	Rat	Method not given	
sodium cumenesulphonate	LD 50	> 7000	Rat	Method not given	
glutaral	LD 50	77	Rat	OECD 401 (EU B.1)	

### Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data available			
alkyl alcohol alkoxylate	LD 50	> 10000	Rabbit	Method not given	
sodium cumenesulphonate	LD 50	> 2000	Rabbit	Method not given	
glutaral	LD 50	> 1000	Rabbit	OECD 402 (EU B.3)	

#### Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate		No data available			
alkyl alcohol alkoxylate		No data available			
sodium cumenesulphonate	LC 50	> 5 (mist) No mortality observed	Rat	Read across	3.87
glutaral	LC 50	028-0.39 (mist)	Rat	OECD 403 (EU B.2)	4

### Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	Irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	Not irritant	Rabbit	OECD 404 (EU B.4)	
glutaral	Corrosive	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	Irritant	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
glutaral	Severe damage	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	No data available			
glutaral	No data available			

#### Sensitisation Sensitisation by skin contact

Sensitisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
glutaral	Sensitising	Guinea pig	Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	No data available			
sodium cumenesulphonate	No data available			
glutaral	No data available			

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method	Result (in-vivo)	Method				
		(in-vitro)		(in-vivo)				

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alkyl alcohol alkoxylate	No data available		No data available	
alkyl alcohol alkoxylate	No data available		No data available	
sodium cumenesulphonate	No evidence for mutagenicity, negative	Method not	No evidence for mutagenicity, negative	OECD 474 (EU
	test results	given	test results	B.12)
glutaral	Mutagenic	Method not	No evidence for mutagenicity, negative	Method not
		given	test results	given

## Carcinogenicity

Ingredient(s)	Effect
alkyl alcohol alkoxylate	No data available
alkyl alcohol alkoxylate	No data available
sodium cumenesulphonate	No evidence for carcinogenicity, negative test results
glutaral	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
alkyl alcohol alkoxylate			No data available				
alkyl alcohol alkoxylate			No data available				
sodium cumenesulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		No known significant effects or critical hazards
glutaral			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity

### 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 alkoxylate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium cumenesulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)		No effects observed
glutaral		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 alkoxylate		No data available				
alkyl alcohol alkoxylate		No data				
sodium cumenesulphonate		available No data				
glutaral		available No data				
giotalai		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 alkoxylate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium cumenesulphonate		No data available				
glutaral		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 alkoxylate			No data					
			available					
alkyl alcohol alkoxylate			No data					
			available					
sodium			No data					
cumenesulphonate			available					
glutaral			No data					
			available					

# STOT-single exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
alkyl alcohol alkoxylate	No data available

sodium cumenesulphonate	Not applicable
glutaral	Respiratory tract

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
alkyl alcohol alkoxylate	No data available
sodium cumenesulphonate	Not applicable
glutaral	Respiratory tract

## 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 alkoxylate	LC 50	1- 10	Leuciscus idus	Method not given	48
alkyl alcohol alkoxylate	LC 50	> 100	Leuciscus idus	Read across	96
sodium cumenesulphonate	LC 50	> 1000	Fish	EPA-OPPTS 850.1075	96
glutaral	LC 50	0.8	Oncorhynchus mykiss	OECD 203, static	96

Aquatic short-term toxicity - crustacea					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol alkoxylate	EC 50	1 - 10	Not specified	Method not given	48
alkyl alcohol alkoxylate	EC 50	> 100	Not specified	Read across	48
sodium cumenesulphonate	EC 50	> 1000	Daphnia magna Straus	OECD 202 (EU C.2)	48
glutaral	LC 50	0.345	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 alkoxylate		No data available			-
alkyl alcohol alkoxylate	EC 50	> 72	Not specified		
sodium cumenesulphonate	E b C 50	> 230	Not specified	EPA OPPTS 850.5400	96
glutaral	EC 50	0.6	Desmodesmus subspicatus	OECD 201, static	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alkyl alcohol alkoxylate		No data available			-
alkyl alcohol alkoxylate		-		Read across	
sodium cumenesulphonate		No data available			-
glutaral		No data available			-

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alkyl alcohol alkoxylate	EC 10	> 1000	Activated sludge	DEV-L2	
alkyl alcohol alkoxylate		No data available			
sodium cumenesulphonate	Er C 50	> 1000	Bacteria	OECD 209	3 hour(s)
glutaral	EC 20	15	Activated	OECD 209	30

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# Aquatic long-term toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol alkoxylate		No data available				
alkyl alcohol alkoxylate		No data available				
sodium cumenesulphonate		No data available				
glutaral	NOEC	1.6	Oncorhynchus mykiss	Method not given	97 day(s)	

#### Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alkyl alcohol alkoxylate		No data				
		available				
alkyl alcohol alkoxylate		No data				
		available				
sodium cumenesulphonate		No data				
		available				
glutaral	NOEC	5.0	Daphnia	OECD 211,	21 day(s)	
			magna	semi-static		

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 alkoxylate		No data available			-	
alkyl alcohol alkoxylate		No data available				
sodium cumenesulphonate		No data available			-	
glutaral		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 alkoxylate		No data available			-	
sodium cumenesulphonate		No data available			-	
glutaral		No data available			-	

## Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		No data available			-	
sodium cumenesulphonate		No data available			-	
glutaral		No data available			-	

#### Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		No data			-	
		available				
sodium cumenesulphonate		No data			-	
		available				
glutaral		No data			-	
		available				

## Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/kg dw			time (days)	
		soil)				
alkyl alcohol alkoxylate		No data			-	
		available				
sodium cumenesulphonate		No data			-	
		available				

glutaral	No data		-	
ő	available			

#### Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		No data available			-	
sodium cumenesulphonate		No data available			-	
glutaral		No data 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
alkyl alcohol alkoxylate			> 60 % in 28 day(s)	OECD 301F	Readily biodegradable
alkyl alcohol alkoxylate			> 60 % in 28 day(s)	OECD 301F OECD 301B	Readily biodegradable
sodium cumenesulphonate		CO <sub>2</sub> production	103 - 109% in 28 day(s)	OECD 301B	Readily biodegradable
glutaral	Activated sludge, aerobe	DOC reduction	90 - 100 % 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 alkyl alcohol alkoxylate No data available alkyl alcohol alkoxylate No data available No bioaccumulation expected sodium cumenesulphonate -1.1 Method not given No bioaccumulation expected -0.36 (EC) 440/2008, A.8 glutaral No bioaccumulation expected

#### Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol alkoxylate	No data available				
alkyl alcohol alkoxylate	No data available				
sodium cumenesulphonate	No data available				
glutaral	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 alkoxylate	No data available				
alkyl alcohol alkoxylate	No data available				
sodium cumenesulphonate	No data available				
glutaral	2.51		Method not given		Potential for adsorption to 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 30 - detergents other than those mentioned in 20 01 29.
Empty packaging	
Recommendation:	Dispose of observing national or local regulations.
Suitable cleaning agents:	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 1272/2008 - CLP
 Regulation (EC) No. 1907/2006 - REACH
 Regulation (EC) No. 648/2004 - Detergents regulation

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

UFI: 2XG4-S0N3-U00J-WU9X

# Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants Glutaral

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.

#### 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

#### SDS code: MS1001762

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2

#### 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:

· H290 - May be corrosive to metals.

- · H301 Toxic if swallowed. • H314 - Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- · 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

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5 - 15%

Version: 01.2

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