Safety Data Sheet



According to Regulation (EC) No 1907/2006

Suma Unison Clar A2

Revision: 2018-12-19 **Version:** 09.0

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

1.1 Product identifier

Trade name: Suma Unison Clar A2

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

Identified uses:

For professional use only.

AISE-P204 - Rinse aid. Automatic process

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

1.3 Details of the supplier of the safety data sheet

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

Contact details

Diversey 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

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not classified as hazardous

2.2 Label elements

Contains glutaral (Glutaral)

Hazard statements:

EUH208 - May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

Further indications on the label:

Contains: preservative.

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
alkyl alcohol alkoxylate	[4]	111905-53-4	[4]	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)		3-10
alkyl alcohol alkoxylate	[4]	9003-11-6	[4]	Aquatic Chronic 3 (H412)		3-10
glutaral	203-856-5	111-30-8	01-2119455549-26	Acute Tox. 2 (H330) Acute Tox. 3 (H301) Skin Corr. 1B (H314) EUH071 STOT SE 3 (H335) Skin Sens. 1A (H317) Resp. Sens. 1A (H334) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) Met. Corr. 1 (H290)		0.01-0.1

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.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice

or attention.

Eye contact: Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical

attention.

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

No known effects or symptoms in normal use. Inhalation: No known effects or symptoms in normal use. Skin contact: 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. 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:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
glutaral	0.05 ppm	0.05 ppm
	0.2 mg/m ³	0.2 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and **PNEC** values

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

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

DNFL dermal exposure - Worker

BITEE domai expecure Tremer				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
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
glutaral	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
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	No data available
glutaral	-	-	0.0106	-

DNEL inhalatory exposure - Consumer (mg/m3)

DNEL innalatory exposure - Consumer (mg/m ²)				
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	-	-	-	-
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	-	-	-	-
glutaral	0.0025	0.00025	0.006	0.8

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater	Sediment, marine	Soil (mg/kg)	Air (mg/m³)
	(mg/kg)	(mg/kg)		
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available
alkyl alcohol alkoxylate	-	-	-	-
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 undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

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

Avoid direct contact and/or splashes where possible. Train personnel. Appropriate organisational controls:

Personal protective equipment

Safety glasses are not normally required. However, their use is recommended in those cases Eye / face protection:

where splashes may occur when handling the product (EN 166).

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

No special requirements under normal use conditions. **Environmental exposure controls:**

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 0.03

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

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions. No special requirements under normal use conditions. Hand protection: **Body protection:** No special requirements under normal use conditions. Respiratory protection: No special requirements under normal use conditions.

No special requirements under normal use conditions. **Environmental exposure controls:**

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: Product specific

Odour threshold: Not applicable

pH: ≈ 7 (neat) 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 (°C)	Method	Atmospheric pressure (hPa)
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	Product decomposes before boiling		
glutaral	101.5	Method not given	987.1

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:

Not relevant to classification of this product

Method / remark Vapour pressure: Not determined See substance data

Substance data, vapour pressure

ſ	Ingredient(s)	Value	Method	Temperature
-		(Pa)		(°C)

alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	< 10		20
glutaral	2000	Method not given	20.1

Method / remark

Vapour density: Not determined Relative density: ≈ 1.02 (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	Method	Temperature
	(g/l)		(°C)
alkyl alcohol alkoxylate	No data available		
alkyl alcohol alkoxylate	Soluble	Non-experimental data	
glutaral	Soluble	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: 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

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

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

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

Acute toxicity

Acute oral toxicity

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

Acute dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure
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		(mg/kg)			time (h)
alkyl alcohol alkoxylate		No data			
		available			
alkyl alcohol alkoxylate	LD 50	> 10000	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			
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			
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			
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			
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			
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			
glutaral	No data available			

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

Ingredient(s)	Result (in-vitro)	Method (in-vitro)		
alkyl alcohol alkoxylate	No data available		No data available	
alkyl alcohol alkoxylate	No data available		No data available	
glutaral	Mutagenic	Method not	No evidence for mutagenicity, negative	Method not
		given	test results	given

Carcinogenicity

	Carolinegorilary			
Ingredient(s)		Effect		
	alkyl alcohol alkoxylate	No data available		
,		No data available		
		No evidence for carcinogenicity, negative test results		

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
alkyl alcohol alkoxylate			No data				
			available				
alkyl alcohol alkoxylate			No data				
			available				
glutaral			No data				No evidence for developmental
_			available				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			unio (dayo)	unotou
, , ,		available				
alkyl alcohol alkoxylate		No data				
		available				
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				
		available				
glutaral		No data				
· ·		available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
alkyl alcohol alkoxylate		No data				
		available				
alkyl alcohol alkoxylate		No data				
		available				
glutaral		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	
alkyl alcohol alkoxylate			No data					
			available					
alkyl alcohol alkoxylate			No data					
,			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
glutaral	Respiratory tract

STOT-repeated exposure

e : e : repeated expecute	
Ingredient(s)	Affected organ(s)
alkyl alcohol alkoxylate	No data available
alkyl alcohol alkoxylate	No data available
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

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
glutaral	LC 50	0.8	Oncorhynchus mvkiss	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
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		
glutaral	EC 50	0.6	Desmodesmus subspicatus	OECD 201, static	72

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

Impact on sewage plants - toxicity to bacteria

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			
glutaral	EC 20	15	Activated sludge	OECD 209	30 minute(s)

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

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

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				
glutaral		No data available			-	

Terrestrial toxicityTerrestrial 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			-	
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			-	
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			-	
glutaral		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

renes	sinai toxicity - beneficiai insects, ii avaliable.						
	Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
	alkyl alcohol alkoxylate		No data available			-	
	glutaral		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
alkyl alcohol alkoxylate		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:

BiodegradationReady 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
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

Ingredient(s)	Value	Method	Evaluation	Remark
alkyl alcohol alkoxylate	No data available			
alkyl alcohol alkoxylate	No data available		No bioaccumulation expected	
glutaral	-0.36	(EC) 440/2008, A.8	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				
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				
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 The concentrated contents or contaminated packaging should be disposed of by a certified handler products:

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. 20 01 30 - detergents other than those mentioned in 20 01 29.

European Waste Catalogue:

Empty packaging

Dispose of observing national or local regulations. Recommendation:

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. 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: T1E4-K05M-E00R-E7GR

Ingredients according to EC Detergents Regulation 648/2004

non-ionic surfactants 15 - 30 %

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: MSDS3370 Revision: 2018-12-19 Version: 09.0

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 11, 12, 16

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.
- · H302 Harmful 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.
 H330 Fatal if inhaled.
 H331 Toxic if inhaled.

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

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