

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Suma Grill Gel D9.4

Revision: 2017-12-24 **Version:** 04.1

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

1.1 Product identifier

Trade name: Suma Grill Gel D9.4

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

Identified uses:

For professional use only.

AISE-P310 - Oven/Grill cleaner. Manual process

AISE-P311 - Oven/Grill cleaner. Spray and wipe manual process

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

1.3 Details of the supplier of the safety data sheet

Contact details

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

Skin Corr. 1A (H314)

EUH071

Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains sodium hydroxide (Sodium Hydroxide).

Hazard statements:

H314 - Causes severe skin burns and eye damage.

EUH071 - Corrosive to the respiratory tract.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P260 - Do not breathe spray.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

2.3 Other hazards

No other hazards known

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
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Met. Corr. 1 (H290) Skin Corr. 1A (H314)		3-10
alkyl alcohol ethoxylate	Polymer*	64425-86-1	[4]	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		3-10
sodium alkylethersulphate	Polymer*	68585-34-2	01-2119488639-16	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		3-10
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	931-292-6	-	01-2119490061-47	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		1-3

^{*} Polymer.

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: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTRE, doctor or physician.

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off Skin contact:

immediately all contaminated clothing and wash it before re-use. Immediately call a POISON

CENTRE, doctor or physician.

Eye contact: Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing, Immediately call a POISON CENTRE, doctor or

physician.

Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Ingestion:

Immediately call a POISON CENTRE, doctor or physician.

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: Corrosive to the respiratory tract.

Skin contact: Causes severe burns.

Eye contact: Causes severe or permanent damage.

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of Ingestion:

oesophagus and stomach.

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. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Use neutralising agent. Absorb onto dry sand or similar inert material.

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 to prevent aerosol and dust generation:

Avoid formation of aerosol.

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. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe spray. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
sodium hydroxide		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

DINEL oral exposure - Consumer (mg/kg bw)				
Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
sodium alkylethersulphate	-	-	-	15
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)
sodium hydroxide	2 %	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
sodium alkylethersulphate	-	-	-	2750
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)
sodium hydroxide	2 %	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
sodium alkylethersulphate	-	1650	-	-
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available	-	0.27 %	5.5

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
sodium hydroxide	ı	-	1	-
alkyl alcohol ethoxylate	-	-	-	-
sodium alkylethersulphate	-	-	-	175
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	15.5

DNEL inhalatory exposure - Consumer (mg/m3)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
sodium hydroxide	-	-	1	-
alkyl alcohol ethoxylate	-	-	-	-
sodium alkylethersulphate	-	-	-	52
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	-	-	3.825

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)
sodium hydroxide	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
sodium alkylethersulphate	0.24	0.024	-	10000
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	0.0335	0.00335	0.0335	24

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
sodium hydroxide	-	-	-	-
alkyl alcohol ethoxylate	-	-	-	-
sodium alkylethersulphate	0.0917	0.092	7.5	-
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 undiluted product:

Appropriate engineering controls: Provide a good standard of general ventilation. Where possible: use in automated/closed system

and cover open containers. Transport over pipes. Filling with automatic systems. Use tools for

manual handling of product.

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

Personal protective equipment

Eye / face protection: Safety glasses or goggles (EN 166).

Hand protection: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and

breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: >= 480 min

Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: >= 30

min Material thickness: >= 0.4 mm

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

be chosen.

Body protection: Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may

occur (EN 14605).

Respiratory protection: If exposure to liquid particles or splashes cannot be avoided use: half mask (EN 140) with particle

filter P2 (EN 143) or full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar protection may be chosen. Specific applications tools may be available to limit

exposure. Please refer to the product information sheet for the possibilities.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical State: Liquid
Colour: Opaque, White
Odour: Product specific
Odour threshold: Not applicable

pH: > 12 (neat)

Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Not relevant to classification of this product

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hydroxide	> 990	Method not given	
alkyl alcohol ethoxylate	No data available		
sodium alkylethersulphate	> 100	Method not given	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	> 100	Method not given	

Method / remark

Flash point (°C): Not applicable.

Sustained combustion: Not applicable.

(UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hydroxide	< 1330	Method not given	20
alkyl alcohol ethoxylate	< 10		20
sodium alkylethersulphate	2300		20
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	< 10	Method not given	25

Method / remark

Vapour density: Not determined Relative density: ≈ 1.10 (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium hydroxide	1000	Method not given	20
alkyl alcohol ethoxylate	Insoluble	Method not given	
sodium alkylethersulphate	Soluble		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

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

Reacts with acids.

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):

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)
sodium hydroxide		No data available			
alkyl alcohol ethoxylate	LD 50	> 2000	Rat	Method not given	
sodium alkylethersulphate	LD 50	> 2000	Rat	OECD 401 (EU B.1)	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LD 50	> 300 - 2000	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hydroxide		No data			
		available			
alkyl alcohol ethoxylate		No data			
		available			
sodium alkylethersulphate	LD 50	> 2000	Rat	OECD 402 (EU B.3)	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	LD 50	> 5000	Rat	OECD 402 (EU B.3)	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide		No data			
		available			
alkyl alcohol ethoxylate		No data			
		available			
sodium alkylethersulphate		No data			
		available			
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data			
		available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hydroxide	Corrosive	Rabbit	Method not given	
alkyl alcohol ethoxylate	Irritant	Rabbit	Method not given	
sodium alkylethersulphate	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
sodium hydroxide	Corrosive	Rabbit	Method not given	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
sodium alkylethersulphate	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
sodium hydroxide	No data available			
alkyl alcohol ethoxylate	No data available			
sodium alkylethersulphate	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)
sodium hydroxide	Not sensitising		Human repeated patch	
			test	
alkyl alcohol ethoxylate	No data available			
sodium alkylethersulphate	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			GPMT Read across	
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
sodium hydroxide	No data available			
alkyl alcohol ethoxylate	No data available			
sodium alkylethersulphate	No data available			
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) $\underline{\text{Mutagenicity}}$

	Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
	sodium hydroxide	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
	alkyl alcohol ethoxylate	No data available		No data available	
	sodium alkylethersulphate	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	
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
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence
alkyl alcohol ethoxylate	No data available
sodium alkylethersulphate	No evidence for carcinogenicity, negative test results
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

l oxicity for reproduction							
Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity
alkyl alcohol ethoxylate			No data available				
sodium alkylethersulphate	NOAEL	Developmental toxicity	86.6	Rat	OECD 416, (EU B.35), oral		No known significant effects or critical hazards
Amines, C12-14 (even numbered)-alkyldimeth yl, N-oxides	NOAEL	Teratogenic effects	25	Rat	Non guideline test		

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium hydroxide		No data				
•		available				
alkyl alcohol ethoxylate		No data				
		available				
sodium alkylethersulphate	NOAEL	50		Method not		
, .				given		
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
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		(mg/kg bw/d)		time (days)	affected
sodium hydroxide		No data available			
alkyl alcohol ethoxylate		No data available			
sodium alkylethersulphate	NOEL	> 12.5	Method not given		
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		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
sodium hydroxide		No data available				
alkyl alcohol ethoxylate		No data available				
sodium alkylethersulphate		No data available				
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		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
sodium hydroxide			No data available					
alkyl alcohol ethoxylate			No data available					
sodium alkylethersulphate			No data available					
Amines, C12-14 (even numbered)-alkyldimeth yl, N-oxides			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
alkyl alcohol ethoxylate	No data available
sodium alkylethersulphate	No data available
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sodium hydroxide	No data available
alkyl alcohol ethoxylate	No data available
sodium alkylethersulphate	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. 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)
sodium hydroxide	LC 50	35	Various species	Method not given	96
alkyl alcohol ethoxylate	LC 50	1 - 10	Brachydanio rerio	Method not given	96
sodium alkylethersulphate	LC 50	1 - 10	Brachydanio rerio	OECD 203, semi-static	96
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)
sodium hydroxide	EC 50	40.4	Ceriodaphnia	Method not given	48
			sp.		
alkyl alcohol ethoxylate	EC 50	0.1 - 1	Not specified	Method not given	48
sodium alkylethersulphate	EC 50	1 - 10	Daphnia	OECD 202, static	48
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	EC 50	3.1	Daphnia	OECD 202 (EU C.2)	48
			magna Straus		

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hydroxide	EC 50	22	Photobacteriu	Method not given	0.25
			m		
			phosphoreum		
alkyl alcohol ethoxylate	EC 50	0.1 - 1	Desmodesmus	Method not given	72
			subspicatus		
sodium alkylethersulphate	EC 50	7.5	Not specified	DIN 38412, Part 9	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)
sodium hydroxide		No data available			-
alkyl alcohol ethoxylate		No data available			-
sodium alkylethersulphate		No data available			-
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium hydroxide		No data available			
alkyl alcohol ethoxylate	EC 10	> 10000	Pseudomonas putida	Method not given	16 hour(s)
sodium alkylethersulphate	EC 10	300 - 500		Method not given	0.5 hour(s)
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	Species	Method	Exposure	Effects observed
		(mg/l)			time	
sodium hydroxide		No data				
•		available				
alkyl alcohol ethoxylate		No data				
		available				
sodium alkylethersulphate	NOEC	0.1 - 0.13	Not specified	Method not	365 day(s)	
, ,			·	given	, ,	
Amines, C12-14 (even numbered)-alkyldimethyl,	NOEC	0.42	Not specified	-	302 day(s)	
N-oxides			l '		1 , ,	

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hydroxide		No data available				
alkyl alcohol ethoxylate	NOEC	> 0.1-<1	Not specified	Weight of evidence		
sodium alkylethersulphate	NOEC	0.18 - 0.72	Daphnia sp.	Method not given	21 day(s)	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	NOEC	0.7	Daphnia magna	Method not given	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
sodium hydroxide		No data			-	
		available				
alkyl alcohol ethoxylate		No data			-	
		available				
sodium alkylethersulphate	NOEC	0.72 - 0.9		Method not	3	
				given		
Amines, C12-14 (even numbered)-alkyldimethyl,		No data			-	
N-oxides		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
sodium hydroxide		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
sodium alkylethersulphate		No data available			-	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
sodium alkylethersulphate		No data available			-	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data			-	
		available				
alkyl alcohol ethoxylate		No data			-	
		available				
sodium alkylethersulphate		No data			-	
		available				
Amines, C12-14 (even numbered)-alkyldimethyl,		No data			-	
N-oxides		available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			=	
alkyl alcohol ethoxylate		No data available			-	
sodium alkylethersulphate		No data available			-	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
sodium alkylethersulphate		No data available			-	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

dation - photodegradation in air if available:

Abiotic degradation - photodegradation in air, if available.							
Ingredient(s)	Half-life time	Method	Evaluation	Remark			
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable				

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
sodium hydroxide					Not applicable (inorganic substance)

alkyl alcohol ethoxylate	Activated sludge, aerobe	DOC reduction	90 - 100%	OECD 301A	Readily biodegradable
sodium alkylethersulphate			> 60 % in 28 day(s)	Method not given	Readily biodegradable
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides		CO ₂ 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)

Ingredient(s)	Value	Method	Evaluation	Remark
sodium hydroxide	No data available		Not relevant, does not	
			bioaccumulate	
alkyl alcohol ethoxylate	No data available	Method not given	No bioaccumulation expected	
sodium alkylethersulphate	0.95 - 3.9	Method not given	Low potential for bioaccumulation	
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	0.93	(EC) 440/2008, A.8	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hydroxide	No data available				
alkyl alcohol ethoxylate	No data available				
sodium alkylethersulphate	No data available				
Amines, C12-14 (even numbered)-alkyldimeth yl, N-oxides					

12.4 Mobility in soil

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium hydroxide	No data available				Mobile in soil
alkyl alcohol ethoxylate	No data available				Potential for adsorption to soil
sodium alkylethersulphate	No data available				
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 15* - alkalines.

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: 1824

14.2 UN proper shipping name:

Sodium hydroxide solution

14.3 Transport hazard class(es):

Class: 8 Label(s): 8 14.4 Packing group: II 14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: C5 Tunnel restriction code: E Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

EU regulations:

- Regulation (EC) No 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.

Ingredients according to EC Detergents Regulation 648/2004

5 - 15% non-ionic surfactants anionic surfactants < 5%

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

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Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 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.
- · H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- · 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

End of Safety Data Sheet