Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No. : 414851
V007.0

BONDERITE C-MC 3000 JC5 RWE

Revision: 25.08.2022
printing date: 24.12.2022
Replaces version from: 30.04.2021

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

1.1. Product identifier
BONDERITE C-MC 3000 JC5 RWE

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Cleaners for Industrial Application

1.3. Details of the supplier of the safety data sheet
Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

ua-productsafety.de@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number
The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin corrosion	Category 1B
H314 Causes severe skin burns and eye damage.	
Serious eye damage	Category 1
H318 Causes serious eye damage.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Contains Sodium hydroxide

Signal word:	Danger
Hazard statement:	H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statement: **Prevention**	P260 Do not breathe mist/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: **Response**	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 CENTER or doctor.

2.3. Other hazards

None if used properly.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration >= 0,1% and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration ≥ the concentration limit that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3 500-234-8 500-234-8 01-2119488639-16	5- < 10 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Eye Irrit. 2; H319; C 5 - < 10 % Eye Dam. 1; H318; C >= 10 %	
Sodium p-cumenesulphonate 15763-76-5 239-854-6 01-2119489411-37	1- < 5 %	Eye Irrit. 2, H319		
Sodium hydroxide 1310-73-2 215-185-5 01-2119457892-27	1- < 5 %	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318	Skin Corr. 1A; H314; C >= 5 % Skin Irrit. 2; H315; C 0,5 - < 2 % Eye Irrit. 2; H319; C 0,5 - < 2 % Skin Corr. 1B; H314; C 2 - < 5 %	
Alcohols C13, branched ethoxylated 69011-36-5 500-241-6	1- < 3 %	Eye Dam. 1, H318 Aquatic Chronic 3, H412		
Alcohols, C12-14 80206-82-2 279-420-3	0,1- < 1 %	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	
Alcohols, C12-14, <2.5EO 68439-50-9 500-213-3 01-2119487984-16	0,1- < 1 %	Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Eye Irrit. 2, H319	M acute = 1	

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.
Declaration of ingredients according to Detergent Regulation 648/2004/EC

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

Ingestion:
Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Immediate medical treatment necessary.

4.2. Most important symptoms and effects, both acute and delayed

Causes burns.

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide, foam, powder
Water spray jet

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in fires.

5.3. Advice for firefighters
Wear protective equipment.
Wear self-contained breathing apparatus.

Additional information:
Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes.
Danger of slipping on spilled product.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
When diluting/dissolving always slowly stir the product into water. Do not add product to hot water or hot solutions. Heating with vigorous, sudden delayed boiling is possible! Scalding hazard!
Avoid skin and eye contact.
Ensure that workrooms are adequately ventilated.
See advice in section 8

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Wash contaminated clothing before reuse.
The workplace should be equipped with an emergency shower and eye-rinsing facility.

7.2. Conditions for safe storage, including any incompatibilities
Store in sealed original container.
Avoid strictly temperatures below + 5 °C and above + 50 °C.
Keep only in original container.

7.3. Specific end use(s)
Cleaners for Industrial Application

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Germany

None

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	aqua (freshwater)		0,24 mg/l				
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	aqua (marine water)		0,024 mg/l				
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	aqua (intermittent releases)		0,071 mg/l				
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	Sewage treatment plant		10000 mg/l				
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	sediment (freshwater)				0,9168 mg/kg		
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	sediment (marine water)				0,09168 mg/kg		
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	Soil				7,5 mg/kg		
Sodium p-cumenesulphonate 15763-76-5	aqua (freshwater)		0,23 mg/l				
Sodium p-cumenesulphonate 15763-76-5	aqua (intermittent releases)		2,3 mg/l				
Sodium p-cumenesulphonate 15763-76-5	sewage treatment plant (STP)		100 mg/l				
Sodium p-cumenesulphonate 15763-76-5	aqua (marine water)		0,023 mg/l				
Sodium p-cumenesulphonate 15763-76-5	sediment (freshwater)				0,862 mg/kg		
Sodium p-cumenesulphonate 15763-76-5	sediment (marine water)				0,0862 mg/kg		
Sodium p-cumenesulphonate 15763-76-5	Soil				0,037 mg/kg		
Sodium hydroxide 1310-73-2	aqua (freshwater)						
Sodium hydroxide 1310-73-2	aqua (marine water)						
Sodium hydroxide 1310-73-2	sewage treatment plant (STP)						
Sodium hydroxide 1310-73-2	sediment (freshwater)						
Sodium hydroxide 1310-73-2	sediment (marine water)						
Sodium hydroxide 1310-73-2	Soil						
Sodium hydroxide 1310-73-2	Air						no hazard identified
Sodium hydroxide 1310-73-2	Predator						no potential for bioaccumulation
Alcohols, C12-14, <2.5EO 68439-50-9	aqua (freshwater)		0,074 mg/l				
Alcohols, C12-14, <2.5EO 68439-50-9	Freshwater - intermittent		0,004 mg/l				
Alcohols, C12-14, <2.5EO 68439-50-9	aqua (marine water)		0,007 mg/l				
Alcohols, C12-14, <2.5EO 68439-50-9	Marine water - intermittent		0 mg/l				
Alcohols, C12-14, <2.5EO 68439-50-9	sewage treatment plant (STP)		10000 mg/l				
Alcohols, C12-14, <2.5EO 68439-50-9	sediment (freshwater)				66,67 mg/kg		
Alcohols, C12-14, <2.5EO 68439-50-9	sediment (marine water)				6,66 mg/kg		

Alcohols, C12-14, <2.5EO 68439-50-9	Air						no hazard identified
Alcohols, C12-14, <2.5EO 68439-50-9	Soil				1 mg/kg		
Alcohols, C12-14, <2.5EO 68439-50-9	oral						no potential for bioaccumulation

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	Workers	dermal	Long term exposure - systemic effects		2750 mg/kg	
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	Workers	inhalation	Long term exposure - systemic effects		175 mg/m3	
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	General population	dermal	Long term exposure - systemic effects		1650 mg/kg	
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	General population	inhalation	Long term exposure - systemic effects		52 mg/m3	
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	General population	oral	Long term exposure - systemic effects		15 mg/kg	
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	Workers	dermal	Long term exposure - local effects		0,132 mg/cm2	
Fatty alcohol EO sulfate-Na C12-14 2+2,35EO 68891-38-3	General population	dermal	Long term exposure - local effects		0,079 mg/cm2	
Sodium p-cumenesulphonate 15763-76-5	Workers	dermal	Long term exposure - systemic effects		136,25 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	Workers	inhalation	Long term exposure - systemic effects		26,9 mg/m3	
Sodium p-cumenesulphonate 15763-76-5	Workers	dermal	Long term exposure - local effects		0,096 mg/cm2	
Sodium p-cumenesulphonate 15763-76-5	General population	dermal	Long term exposure - systemic effects		68,1 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	General population	inhalation	Long term exposure - systemic effects		6,6 mg/m3	
Sodium p-cumenesulphonate 15763-76-5	General population	oral	Long term exposure - systemic effects		3,8 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	General population	dermal	Long term exposure - local effects		0,048 mg/cm2	
Sodium hydroxide 1310-73-2	Workers	inhalation	Long term exposure - local effects		1 mg/m3	no hazard identified
Sodium hydroxide 1310-73-2	General population	inhalation	Long term exposure - local effects		1 mg/m3	no hazard identified
Alcohols, C12-14, <2.5EO 68439-50-9	Workers	dermal	Long term exposure - systemic effects		2080 mg/kg	no hazard identified
Alcohols, C12-14, <2.5EO 68439-50-9	Workers	inhalation	Long term exposure - systemic effects		294 mg/m3	no hazard identified
Alcohols, C12-14, <2.5EO 68439-50-9	General population	dermal	Long term exposure - systemic effects		1250 mg/kg	no hazard identified
Alcohols, C12-14, <2.5EO 68439-50-9	General population	inhalation	Long term exposure - systemic effects		87 mg/m3	no hazard identified
Alcohols, C12-14, <2.5EO 68439-50-9	General population	oral	Long term exposure - systemic effects		25 mg/kg	no hazard identified

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/suction at the workplace.

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).
This recommendation should be matched to local conditions.

Hand protection:
Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Delivery form	liquid
Colour	Colorless to yellow
Odor	Solvent
Melting point	Not available.
Solidification temperature	< 0 °C (< 32 °F)
Initial boiling point	> 100 °C (> 212 °F)no method
Flammability	The product is not flammable.
Explosive limits	Not applicable, The product is not flammable.
Flash point	> 100 °C (> 212 °F); no method
Auto-ignition temperature	Not applicable, Aqueous solution
Decomposition temperature	Currently under determination
pH (20 °C (68 °F); Conc.: 1 %; Solvent: De-ionized water)	11,4 - 12,2 PH-value, potentiometer
pH (20 °C (68 °F); Conc.: 100 %)	12,8 PH-value, potentiometer
Viscosity (kinematic) (20 °C (68 °F);)	3,67 mm2/s ;. Viscosity and density by Stabinger Viscosimeter
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible

Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure (20 °C (68 °F))	23,4 mbar
Density (20 °C (68 °F))	1,068 g/cm3 density, weight
Relative vapour density: (20 °C)	< 1
Particle characteristics	Not applicable Product is a liquid

9.2. Other information
Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity
Reaction with strong acids.
Reacts with water: generation of heat.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
No decomposition if used according to specifications.

10.5. Incompatible materials
See section reactivity.

10.6. Hazardous decomposition products
None if used for intended purpose.
In case of fire toxic gases can be released.

SECTION 11: Toxicological information

1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	LD50	2.870 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Sodium p-cumenesulphonate 15763-76-5	LD50	3.346 mg/kg	rat	EPA OTS 798.1175 (Acute Oral Toxicity)
Sodium hydroxide 1310-73-2	LD50	> 2.000 mg/kg	rat	not specified
Alcohols C13, branched ethoxylated 69011-36-5	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Alcohols, C12-14 80206-82-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Alcohols, C12-14, <2.5EO 68439-50-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Sodium p-cumenesulphonate 15763-76-5	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Alcohols C13, branched ethoxylated 69011-36-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Alcohols, C12-14, <2.5EO 68439-50-9	LD50	> 3.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Sodium p-cumenesulphonate 15763-76-5	LC50	> 6,41 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Sodium p-cumenesulphonate 15763-76-5	not irritating	24 h	rabbit	Draize Test
Sodium hydroxide 1310-73-2	corrosive		In vitro International Corrositex assay kit	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
Alcohols, C12-14 80206-82-2	moderately irritating	24 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Alcohols, C12-14 80206-82-2	not irritating	4 h	human	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C12-14, <2.5EO 68439-50-9	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium p-cumenesulphonate 15763-76-5	moderately irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Sodium hydroxide 1310-73-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-14 80206-82-2	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-14, <2.5EO 68439-50-9	irritating			Expert judgement

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Sodium p-cumenesulphonate 15763-76-5	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Sodium hydroxide 1310-73-2	not sensitising	Patch-Test	human	not specified
Alcohols, C12-14 80206-82-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Alcohols, C12-14, <2.5EO 68439-50-9	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Sodium p-cumenesulphonate 15763-76-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EPA OTS 798.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test)
Sodium p-cumenesulphonate 15763-76-5	negative	in vitro mammalian chromosome aberration test	with and without		EPA OPPTS 870.5375 (In Vitro Mammalian Chromosome Aberation)
Sodium p-cumenesulphonate 15763-76-5	negative	mammalian cell gene mutation assay	with and without		EPA OPPTS 870.5300 (Detection of Gene Mutations in Somatic Cells in Culture)
Sodium p-cumenesulphonate 15763-76-5	negative	sister chromatid exchange assay in mammalian cells	with and without		EPA OPPTS 870.5900 (In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Alcohols, C12-14 80206-82-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Alcohols, C12-14, <2.5EO 68439-50-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Alcohols, C12-14, <2.5EO 68439-50-9	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Alcohols, C12-14, <2.5EO 68439-50-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Sodium p-cumenesulphonate 15763-76-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Alcohols, C12-14 80206-82-2	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Alcohols, C12-14, <2.5EO 68439-50-9	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Sodium p-cumenesulphonate 15763-76-5	NOAEL P 300 mg/kg NOAEL F1 1.000 mg/kg	screening	oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Alcohols, C12-14 80206-82-2	NOAEL P 2.000 mg/kg NOAEL F1 2.000 mg/kg	screening	oral: feed	rat	other guideline:

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Sodium p-cumenesulphonate 15763-76-5	NOAEL > 763 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Alcohols, C12-14 80206-82-2	NOAEL 2.000 mg/kg	oral: feed	Males 41-45d; Females ca. 54d continuous in the diet	rat	other guideline:
Alcohols, C12-14, <2.5EO 68439-50-9	NOAEL >= 500 mg/kg	oral: feed	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:
Do not empty into drains / surface water / ground water.
Locally harmful for aquatic and landliving organisms because of high pH and corrosive properties.
The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).
The surfactants contained in the products are primary biodegradable to at least 90% on average.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	LC50	7,1 mg/l	96 h	Danio rerio (reported as Brachydanio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	NOEC	> 1 - 10 mg/l			OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Sodium p-cumenesulphonate 15763-76-5	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodium hydroxide 1310-73-2	LC50	45,4 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols C13, branched ethoxylated 69011-36-5	LC50	4,6 mg/l		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols C13, branched ethoxylated 69011-36-5	NOEC	> 0,1 - 1 mg/l	21 d		OECD Guideline 210 (fish early lite stage toxicity test)
Alcohols, C12-14 80206-82-2	LC50	Toxicity > Water solubility	48 h	Leuciscus idus	DIN 38412-15
Alcohols, C12-14, <2.5EO 68439-50-9	LC50	0,876 mg/l	96 h	Danio rerio (reported as Brachydanio rerio)	EU Method C.1 (Acute Toxicity for Fish)
Alcohols, C12-14, <2.5EO 68439-50-9	NOEC	0,28 mg/l	30 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	EC50	> 10 - 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium p-cumenesulphonate 15763-76-5	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium hydroxide 1310-73-2	EC50	40,4 mg/l	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols C13, branched ethoxylated 69011-36-5	EC50	2,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C12-14 80206-82-2	EL50	Toxicity > Water solubility	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Alcohols, C12-14, <2.5EO 68439-50-9	EC50	0,39 mg/l	48 h	Daphnia magna	other guideline:

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alcohols, C12-14, <2.5EO 68439-50-9	NOEC	0,77 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	EC50	27,7 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	NOEC	0,95 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium p-cumenesulphonate 15763-76-5	EC50	> 100 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols C13, branched ethoxylated 69011-36-5	EC50	2,9 mg/l	48 h		OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14 80206-82-2	EL50	> 0,1 - 0,3 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14 80206-82-2	NOELR	0,003 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14, <2.5EO 68439-50-9	EC50	0,41 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14, <2.5EO 68439-50-9	NOEC	0,31 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	EC0	> 100 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Sodium hydroxide 1310-73-2	EC0	> 100 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Alcohols, C12-14, <2.5EO 68439-50-9	EC10	> 10.000 mg/l	16,9 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	readily biodegradable	no data	> 60 %	28 d	OECD 301 A - F
Sodium p-cumenesulphonate 15763-76-5	readily biodegradable	aerobic	99,8 %	28 day	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Alcohols C13, branched ethoxylated 69011-36-5	readily biodegradable	no data	> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Alcohols, C12-14 80206-82-2	readily biodegradable	aerobic	79 - 97 %	28 d	ISO 10708 (BODIS-Test)
Alcohols, C12-14, <2.5EO 68439-50-9	readily biodegradable	aerobic	95 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Hazardous substances **CAS-No.**	**PBT / vPvB**
Alkyl EO sulfate-Na C12-14 2+2,35EO 68891-38-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Sodium p-cumenesulphonate 15763-76-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Sodium hydroxide 1310-73-2	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

EWC/EAK 070608

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number

ADR	1824
RID	1824
ADN	1824
IMDG	1824
IATA	1824

14.2. UN proper shipping name

ADR	SODIUM HYDROXIDE SOLUTION
RID	SODIUM HYDROXIDE SOLUTION
ADN	SODIUM HYDROXIDE SOLUTION
IMDG	SODIUM HYDROXIDE SOLUTION
IATA	Sodium hydroxide solution

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	0 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK:	WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)
Storage class according to TRGS 510:	8B

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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