



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

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BONDERITE C-MC 3100 MAINTENANCE CLEANER known as P3
Grato 3100 KN26 WN

SDS No. : 413253
V004.0

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

1.1. Product identifier

BONDERITE C-MC 3100 MAINTENANCE CLEANER known as P3 Grato 3100 KN26 WN

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

Intended use:

Industrial Cleaning Agents

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@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

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

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

Alkyl EO sulfate-Na C12-14 2+2,35EO

Alcohols C13, branched ethoxylated

Signal word: Danger**Hazard statement:** H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.**Precautionary statement:** P280 Wear eye protection/face protection.
Prevention**Precautionary statement:** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
Response 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 $\geq 0,1\%$ and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):This mixture does not contain any substances in concentration \geq 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 \geq 10 %	
Sodium p-cumenesulphonate 15763-76-5 239-854-6 01-2119489411-37	1- < 5 %	Eye Irrit. 2, H319		
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	0,025- < 0,25 %	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	0,025- < 0,25 %	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:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

In case of adverse health effects seek medical advice.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

EYE: Irritation, conjunctivitis.

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 self-contained breathing apparatus.

Wear protective equipment.

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.

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

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

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.

Protect from direct sunlight and temperatures above 50°C. The storage regulations for aerosols apply.

7.3. Specific end use(s)

Industrial Cleaning Agents

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

None

Occupational Exposure Limits

Valid for

Ireland

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		
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		191 mg/kg	
Sodium p-cumenesulphonate 15763-76-5	Workers	inhalation	Long term exposure - systemic effects		37,4 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	
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:

Wear protective equipment.

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	colourless
Odor	neutral
Melting point	Not applicable, Product is a liquid
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	No flash point up to 100°C. Aqueous preparation.
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH (20 °C (68 °F); Conc.: 1 % product; Solvent: Demineralised water)	10,6 PH-value, potentiometer
pH (20 °C (68 °F); Conc.: 100 % product)	11,05 - 11,45 PH-value, potentiometer
Viscosity (kinematic) (20 °C (68 °F); ; Conc.: 100 % product)	6,67 mm2/s ;. Viscosity and density by Stabinger Viscosimeter
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure	Mixture Currently under determination
Density (20 °C (68 °F))	1,05 - 1,09 g/cm3 density, weight
Relative vapour density:	Currently under determination
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 oxidants.

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

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

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)
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
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:

Causes serious eye damage.

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)
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)
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 Aberration)
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:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Do not empty into drains / surface water / ground water.

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)
Alcohols C13, branched ethoxylated 69011-36-5	LC50	4,6 mg/l		Leuciscus idus	OECD Guideline 203 (Fish, Acute 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 life 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)
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 C13, branched ethoxylated 69011-36-5	EC10	> 0,1 - 1 mg/l	72 h	Skeletonema costatum	ISO 10253 (Water quality)
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)
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.

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

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.
070604

SECTION 14: Transport information

14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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 (Great Britain):

Remarks	Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, e.g COSHH Essentials. EH40 Occupational Exposure Limits Chemicals (Hazard Information & Packaging for Supply) Regulations. The Personnel Protective Equipment at Work Regulations. The Carriage of Dangerous Goods by Road Regulations. The Health & Safety at Work Act 1974. (Note: Use latest editions/amendments of above referenced documents.)
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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:

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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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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