



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

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Bain De Terre Keratin Phyto Protein Shampoo

SDS No. : 804368
V000.0

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

1.1. Product identifier

Bain De Terre Keratin Phyto Protein Shampoo

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

Intended use:
Shampoo

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA
Düsseldorf Germany
Henkelstr. 67
40191 Düsseldorf
Phone: +49 211-797-0

E-mail address of person responsible for Safety Data Sheet:

Henkel Cosmetics, e-mail : Elisabeth.Poppe@henkel.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.
Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Skin irritation	Category 2
Causes skin irritation.	
Serious eye damage	Category 1
Causes serious eye damage.	
Chronic hazards to the aquatic environment	Category 3
Harmful to aquatic life with long lasting effects.	

2.2. Label elements (CLP)

Hazard pictogram:



Signal word:	Danger
Hazard statement:	H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statement: Prevention	P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves.
Precautionary statement: Response	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.
Precautionary statement: Disposal	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

EUH208 Contains Isoeugenol; Coco fatty acid amidamine. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6		01-2119513401-57	>= 10- < 20 %	H315 Skin irritation 2; Dermal H318 Serious eye damage 1
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate 70851-08-0	274-925-5		>= 3- < 10 %	H318 Serious eye damage 1
Cetrimonium chloride 112-02-7	203-928-6	01-2119970558-23	>= 0,25- < 1 %	H302 Acute toxicity 4; Oral H318 Serious eye damage 1 H314 Skin corrosion 1C H400 Acute hazards to the aquatic environment 1 H410 Chronic hazards to the aquatic environment 1
Alcohols, C12-14, ethoxylated 68439-50-9			>= 0,1- < 0,25 %	H318 Serious eye damage 1 H400 Acute hazards to the aquatic environment 1 H412 Chronic hazards to the aquatic environment 3
Coco fatty acid amidamine 68140-01-2	268-771-8		>= 0,02- < 0,1 %	H400 Acute hazards to the aquatic environment 1 H410 Chronic hazards to the aquatic environment 1 H317 Skin sensitizer 1A H301 Acute toxicity 3; Oral H314 Skin corrosion 1B
Isoeugenol 97-54-1	202-590-7		< 0,01 %	H332 Acute toxicity 4; Inhalation H335 Specific target organ toxicity - single exposure 3 H319 Serious eye irritation 2 H317 Skin sensitizer 1A H315 Skin irritation 2; Dermal H312 Acute toxicity 4; Dermal H302 Acute toxicity 4; Oral

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

not relevant.

Skin contact:

Rinse with running water and soap.
Take off all clothing contaminated by the product.
If necessary, see a dermatologist.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:
None known

5.2. Special hazards arising from the substance or mixture

The release of following substances is possible in case of fire:

carbon oxides.
Hydrogen chloride.
nitrogen oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus.
Wear protective equipment.

Additional information:

Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.
Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.
Inform authorities in the event of product spillage to water courses or sewage systems.
Do not dispose of in wastepaper bin or trash-can.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (chemical binder)
Dilute small quantities with large amount of water and rinse.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling advice:
Avoid skin and eye contact.

Fire and explosion protection information:
No special measures required if used properly.

Hygiene measures:

- Do not eat, drink or smoke while working.
- Immediately remove soiled or soaked clothing.
- Wash hands before work breaks and after finishing work.
- Keep away from food, beverages and animal feed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.
Store far from foodstuffs.

7.3. Specific end use(s)

Shampoo

SECTION 8: Exposure controls/personal protection**Only relevant for professional/industrial use****8.1. Control parameters**

Valid for
Germany

None

8.2. Exposure controls**Engineering controls:**

Ensure good ventilation/suction at the workplace.

Respiratory protection:

Not needed.

Hand protection:

For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Manufacturer e.g. German company KCL, type Dermatril.

Eye protection:

Wear tight fitting goggles.

Skin protection:

Suitable protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

The following data apply to the whole mixture:

Appearance	liquid viscous light yellow
Odor	characteristic
pH (25 °C (77 °F))	4,00 - 5,00
Initial boiling point	Not applicable
Flash point	Not applicable
Decomposition temperature	Not applicable

Vapour pressure	Not applicable
Density (20 °C (68 °F))	1,015 - 1,032 g/cm3
Bulk density	Not applicable
Viscosity (Brookfield; Instrument: LVT; 25 °C (77 °F); speed of rotation: 6 min-1; Spindle No: 3)	5.000 - 12.000 mPa.s
Viscosity (kinematic)	Not applicable
Explosive properties	Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Partially soluble
Solidification temperature	Not applicable
Melting point	Not applicable
Flammability	Not applicable
Auto-ignition temperature	Not applicable
Explosive limits	Not applicable
Partition coefficient: n-octanol/water	Not applicable
Evaporation rate	Not applicable
Vapor density	Not applicable
Oxidising properties	Not applicable
Container pressure	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

None known.

10.3. Possibility of hazardous reactions

See section reactivity

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

The present product is a chemical preparation within the meaning of the chemicals act. The following evaluation has been made on the basis of the toxicological data and content by weight of the individual ingredients.

11.1. Information on toxicological effects

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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	LD50	2.079 mg/kg	rat	not specified
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate 70851-08-0	LD50	3.000 mg/kg	rat	not specified
Cetrimonium chloride 112-02-7	LD50	699 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Alcohols, C12-14, ethoxylated 68439-50-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Coco fatty acid amidamine 68140-01-2	LD50	300 mg/kg	rat	OECD Guideline 423 (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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	LD50	6.300 - 13.500 mg/kg	rabbit	not specified
Alcohols, C12-14, ethoxylated 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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	LC50	> 52 mg/l	vapour	4 h	rat	not specified

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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Cetrimonium chloride 112-02-7	Category 1C (corrosive)	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Alcohols, C12-14, ethoxylated 68439-50-9	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Coco fatty acid amidamine 68140-01-2	corrosive	0,5 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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	highly irritating		rabbit	not specified
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2- hydroxypropanesulfonate 70851-08-0	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Cetrimonium chloride 112-02-7	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Alcohols, C12-14, ethoxylated 68439-50-9	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Cetrimonium chloride 112-02-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Alcohols, C12-14, ethoxylated 68439-50-9	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Coco fatty acid amidamine 68140-01-2	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified

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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	negative	in vitro mammalian chromosome aberration test			OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Cetrimonium chloride 112-02-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cetrimonium chloride 112-02-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Cetrimonium chloride 112-02-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Alcohols, C12-14, ethoxylated 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, ethoxylated 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, ethoxylated 68439-50-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Coco fatty acid amidamine 68140-01-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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
Cetrimonium chloride 112-02-7	NOAEL P 16 mg/kg NOAEL F1 24 mg/kg	two-generation study	oral: feed	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	NOAEL 195 mg/kg	oral: unspecified	chronic	rat	not specified
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	NOAEL 259 mg/kg	oral: unspecified	chronic	rat	not specified
Cetrimonium chloride 112-02-7	NOAEL 100 mg/kg	oral: gavage	28 days once daily, 5 times a week	rat	EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
Cetrimonium chloride 112-02-7	NOAEL 113 mg/kg	oral: feed	90 days daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Alcohols, C12-14, ethoxylated 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.

SECTION 12: Ecological information

General ecological information:

The ecological evaluation of the product is based on data from the raw material and/or comparable substances.

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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	LC50	> 3,4 - 4,9 mg/l	96 h	Leuciscus idus	DIN 38412-15
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	NOEC	1,8 mg/l		Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate 70851-08-0	LC50	4,87 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cetrimonium chloride 112-02-7	LC50	0,7 - 1 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cetrimonium chloride 112-02-7	NOEC	0,25 mg/l	30 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Alcohols, C12-14, ethoxylated 68439-50-9	LC50	1,5 mg/l	48 h	Leuciscus idus	DIN 38412-15
Coco fatty acid amidamine 68140-01-2	LC50	0,58 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute 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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	EC50	4,53 mg/l	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate 70851-08-0	EC50	9,3 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cetrimonium chloride 112-02-7	EC50	0,09 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols, C12-14, ethoxylated 68439-50-9	EC50	2,5 mg/l	24 h	Daphnia magna	DIN 38412, part 11
Coco fatty acid amidamine 68140-01-2	EC50	0,09 mg/l		Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isoeugenol 97-54-1	EC50	7,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	NOEC	6,3 mg/l	21 h	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

68439-57-6					
Cetrimonium chloride 112-02-7	NOEC	0,0068 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Coco fatty acid amidamine 68140-01-2	NOEC	0,253 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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	EC50	5,2 mg/l	72 h	Skeletonema costatum	ISO 10253:2006 (Marine algal growth inhibition test)
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	NOEC	3,2 mg/l	72 h	Skeletonema costatum	ISO 10253:2006 (Marine algal growth inhibition test)
Cetrimonium chloride 112-02-7	EC50	0,08 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cetrimonium chloride 112-02-7	EC10	0,047 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Alcohols, C12-14, ethoxylated 68439-50-9	NOEC	> 0,1 - 1 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Alcohols, C12-14, ethoxylated 68439-50-9	EC50	0,87 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Coco fatty acid amidamine 68140-01-2	EC50	0,086 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Coco fatty acid amidamine 68140-01-2	EC10	0,015 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
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	EC10	14 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Cetrimonium chloride 112-02-7	EC10	0,4 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Alcohols, C12-14, ethoxylated 68439-50-9	EC0	10.000 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Coco fatty acid amidamine 68140-01-2	EC 50	38 mg/l			not specified

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	inherently biodegradable	aerobic	88 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	readily biodegradable	aerobic	98 %	30 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate 70851-08-0	inherently biodegradable	aerobic	74 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Amides, coco, N-[3-(dimethylamino)propyl], alkylation products with sodium 3-chloro-2-hydroxypropanesulfonate 70851-08-0	readily biodegradable	aerobic	65 %	28 d	ISO 14593 (CO ₂ -Headspace)
Cetrimonium chloride 112-02-7	inherently biodegradable	aerobic	75 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Cetrimonium chloride 112-02-7	readily biodegradable	aerobic	95 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO ₂ Evolution Test)
Alcohols, C12-14, ethoxylated 68439-50-9	readily biodegradable	aerobic	78 - 79 %	28 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Coco fatty acid amidamine 68140-01-2	readily biodegradable	aerobic	85 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Isoeugenol 97-54-1	readily biodegradable	no data	79 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Cetrimonium chloride 112-02-7	> 33 - 160	35 d		Lepomis macrochirus	EPA OPP 165-4 (Laboratory Studies of Pesticide Accumulation in Fish)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	-1,3	20 °C	EU Method A.8 (Partition Coefficient)
Cetrimonium chloride 112-02-7	3,23		EU Method A.8 (Partition Coefficient)
Isoeugenol 97-54-1	2,65		not specified

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts 68439-57-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Cetrimonium chloride 112-02-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product disposal:

Consider national regulations.

Special waste incineration or special disposal with the approval of the responsible local authority.

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. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations/information (Germany):

WGK:

WGK 3: highly hazardous to water (Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended)

No data of manufacturer available.

Storage class according to TRGS 510:

10

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

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:

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory 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.

Further information:

This information is not related to the use of the product, it is based on our current level of knowledge.