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

Gliss Kur Color Perfector 7 Sec. Express Repair Treatment

SDS No. : 690880
V001.2
Revision: 28.02.2023
printing date: 10.05.2023

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

1.1. Product identifier
Gliss Kur Color Perfector 7 Sec. Express Repair Treatment

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Hair Treatment, rinse-off

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 Consumer Brands, 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):

Flammable liquids	Category 3
Flammable liquid and vapour.	
Skin irritation	Category 2
Causes skin irritation.	
Serious eye irritation	Category 2
Causes serious eye irritation.	
Chronic hazards to the aquatic environment	Category 2
Toxic to aquatic life with long lasting effects.	

2.2. Label elements (CLP)

Hazard pictogram:

Signal word:	Warning
Hazard statement:	H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.
Precautionary statement: Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Response	P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P391 Collect spillage.

EUH208 Contains Linalool; Hexyl Cinnamal; Benzyl salicylate. May produce an allergic reaction.

2.3. Other hazards

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.1. Substances

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
Ethanol denatured 64-17-5 200-578-6 01-2119457610-43	>= 20- < 30 %	Flam. Liq. 2, H225 Eye Irrit. 2, H319	Eye Irrit. 2; H319; C > 50 %	
Tetradecanol 112-72-1 204-000-3 01-2119485910-33	>= 10- < 20 %	Eye Irrit. 2, H319 Aquatic Chronic 1, H410	M chronic = 1	
Cetrimonium chloride 112-02-7 203-928-6 01-2119970558-23	>= 1- < 2,5 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Skin Corr. 1C, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 10 M chronic = 1	
Dodecan-1-ol 112-53-8 203-982-0 01-2119485976-15	>= 0,25- < 1 %	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M acute = 1 ===== inhalation:ATE = > 17,75 mg/l;dust/mist	
Linalool 78-70-6 201-134-4 01-2119474016-42	>= 0,1- < 1 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317		
Hexyl Cinnamal 101-86-0 202-983-3	>= 0,1- < 0,25 %	Aquatic Chronic 2, H411 Skin Sens. 1B, H317 Aquatic Acute 1, H400	M acute = 1	
Benzyl salicylate 118-58-1 204-262-9	>= 0,1- < 0,25 %	Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Eye Irrit. 2, H319		

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.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.
Remove casualty immediately from danger zone. Take off immediately all contaminated clothing.

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.
nitrogen oxides
Hydrogen chloride.

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:
Take measures to prevent the build-up of electrostatic charges.
Keep away from sources of ignition - no smoking.

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)

Hair Treatment, rinse-off

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Remarks
Ethanol 64-17-5			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Ethanol 64-17-5	200	380	Exposure limit(s):	4 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Tetradecanol 112-72-1			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Tetradecanol 112-72-1	20	178	Exposure limit(s):	1	TRGS 900
Glycerol 56-81-5		200	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Glycerol 56-81-5			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Dodecan-1-ol 112-53-8			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Dodecan-1-ol 112-53-8	20	155	Exposure limit(s):	1	TRGS 900

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:
Protective goggles

Skin protection:
Suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid clear colourless/light yellow
Odor	characteristic, fruity
Physical state	liquid
Melting point	Currently under determination
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	27,5 °C (81.5 °F); DIN EN ISO 13736: Flash point, Abel, low viscosity::1876500
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH	Currently under determination
Viscosity (kinematic)	Currently under determination
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Partially soluble
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density (20 °C (68 °F))	0,900 - 0,940 g/cm3 Density and Specific Gravity by Digital Density Meter::50000
Relative vapour density:	Currently under determination
Particle characteristics	Currently under determination

9.2. Other information

Other information not applicable for this product

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 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
Ethanol denatured 64-17-5	LD50	10.470 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Tetradecanol 112-72-1	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Cetrimonium chloride 112-02-7	LD50	699 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Dodecan-1-ol 112-53-8	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Linalool 78-70-6	LD50	2.790 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Hexyl Cinnamal 101-86-0	LD50	3.100 mg/kg	rat	not specified
Benzyl salicylate 118-58-1	LD50	2.227 mg/kg	rat	not specified

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
Ethanol denatured 64-17-5	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Tetradecanol 112-72-1	LD50	> 5.000 mg/kg	rabbit	not specified
Dodecan-1-ol 112-53-8	LD50	> 8.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Linalool 78-70-6	LD50	5.610 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Hexyl Cinnamal 101-86-0	LD50	> 3.000 mg/kg	rabbit	not specified
Benzyl salicylate 118-58-1	LD50	14.150 mg/kg	rabbit	not specified

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
Ethanol denatured 64-17-5	LC50	124,7 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Dodecan-1-ol 112-53-8	Acute toxicity estimate (ATE)	> 17,75 mg/l	dust/mist	4 h		Expert judgement

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
Tetradecanol 112-72-1	not irritating	4 h	human	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)
Dodecan-1-ol 112-53-8	not irritating	4 h	human	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Linalool 78-70-6	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Benzyl salicylate 118-58-1	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
Ethanol denatured 64-17-5	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethanol denatured 64-17-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Tetradecanol 112-72-1	moderately irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Cetrimonium chloride 112-02-7	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Dodecan-1-ol 112-53-8	irritating	24 h	rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Linalool 78-70-6	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
Tetradecanol 112-72-1	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)
Dodecan-1-ol 112-53-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Linalool 78-70-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Hexyl Cinnamal 101-86-0	sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
Hexyl Cinnamal 101-86-0	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Hexyl Cinnamal 101-86-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	Mouse local lymphnode assay (LLNA)

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**
Tetradecanol 112-72-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Tetradecanol 112-72-1	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Tetradecanol 112-72-1	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	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)
Dodecan-1-ol 112-53-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Dodecan-1-ol 112-53-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Dodecan-1-ol 112-53-8	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Dodecan-1-ol 112-53-8	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Linalool 78-70-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Linalool 78-70-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Linalool 78-70-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Hexyl Cinnamal 101-86-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
Benzyl salicylate 118-58-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Tetradecanol 112-72-1	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Dodecan-1-ol 112-53-8	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Linalool 78-70-6	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Hexyl Cinnamal 101-86-0	negative	intraperitoneal		mouse	not specified

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
Tetradecanol 112-72-1	NOAEL P > 2.000 mg/kg NOAEL F1 > 2.000 mg/kg	screening	oral: feed	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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)
Dodecan-1-ol 112-53-8	NOAEL P > 2.000 mg/kg NOAEL F1 > 2.000 mg/kg	screening	oral: feed	rat	equivalent or similar to OECD Guideline 422 (Combined Repeated Dose Toxicity Study)
Linalool 78-70-6	NOAEL P 365 mg/kg NOAEL F1 365 mg/kg		oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

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
Tetradecanol 112-72-1	NOAEL 100 mg/kg	oral: feed	37 days permanent by diet	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)
Dodecan-1-ol 112-53-8	NOAEL > 1.000 mg/kg	oral: gavage	28d daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Dodecan-1-ol 112-53-8	NOAEL 3.548 mg/kg	oral: feed	90d daily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Dodecan-1-ol 112-53-8	NOAEL 1.000 mg/kg	oral: gavage	26 w daily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Linalool 78-70-6	NOAEL 117 mg/kg	oral: gavage	28 d daily	rat	OECD Guideline 407 (Repeated Dose 28-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 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
Ethanol denatured 64-17-5	LC50	> 12.000 - 16.000 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Tetradecanol 112-72-1	LC50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Tetradecanol 112-72-1	EC10	0,43 mg/l	33 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage 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)
Dodecan-1-ol 112-53-8	LC50	1,01 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dodecan-1-ol 112-53-8	NOEC	<= 1 mg/l		Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Linalool 78-70-6	LC50	27,8 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hexyl Cinnamal 101-86-0	LC50	1,7 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzyl salicylate 118-58-1	LC50	1,03 mg/l	96 h	Danio rerio	EU Method C.1 (Acute Toxicity for Fish)

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
Ethanol denatured 64-17-5	EC50	> 100 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Tetradecanol 112-72-1	EC50	Toxicity > Water solubility	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)
Dodecan-1-ol 112-53-8	EC50	0,765 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Linalool 78-70-6	EC50	59 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hexyl Cinnamal 101-86-0	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzyl salicylate 118-58-1	EC50	1,16 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
Tetradecanol 112-72-1	EC10	0,0063 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Cetrimonium chloride 112-02-7	NOEC	0,0068 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Dodecan-1-ol	NOEC	0,014 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia

112-53-8					magna, Reproduction Test)
Hexyl Cinnamal 101-86-0	NOEC	0,063 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**
Ethanol denatured 64-17-5	EC50	> 100 mg/l	24 h	Chlorella pyrenoidosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetradecanol 112-72-1	EL50	Toxicity > Water solubility	96 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetradecanol 112-72-1	EL10	Toxicity > Water solubility	96 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, 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)
Dodecan-1-ol 112-53-8	EC10	0,27 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dodecan-1-ol 112-53-8	EC50	0,66 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Linalool 78-70-6	EC50	88,3 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Linalool 78-70-6	EC10	38,4 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hexyl Cinnamal 101-86-0	NOEC	0,154 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hexyl Cinnamal 101-86-0	EC50	1,88 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzyl salicylate 118-58-1	EC50	1,29 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzyl salicylate 118-58-1	NOEC	0,502 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**
Ethanol denatured 64-17-5	IC50	> 1.000 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Tetradecanol 112-72-1	EC0	9.800 mg/l	30 min		not specified
Cetrimonium chloride 112-02-7	EC10	0,4 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Dodecan-1-ol 112-53-8	EC0	10.000 mg/l	30 min		not specified
Linalool 78-70-6	EC0	100 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Ethanol denatured 64-17-5	readily biodegradable	aerobic	> 70 %	5 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Tetradecanol 112-72-1	readily biodegradable	aerobic	87,5 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
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: CO2 Evolution Test)
Dodecan-1-ol 112-53-8	readily biodegradable	aerobic	79 %	28 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Linalool 78-70-6	readily biodegradable	aerobic	> 97,1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Linalool 78-70-6	inherently biodegradable		100 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Hexyl Cinnamal 101-86-0	readily biodegradable	aerobic	97 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Benzyl salicylate 118-58-1	readily biodegradable	aerobic	87 %	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)
Dodecan-1-ol 112-53-8	29			Oncorhynchus mykiss	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Benzyl salicylate 118-58-1	311	28 d		Danio rerio	EU Method C.13 (Bioconcentration: Flow-through fish test)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Tetradecanol 112-72-1	5,5	25 °C	other guideline:
Cetrimonium chloride 112-02-7	3,23		EU Method A.8 (Partition Coefficient)
Dodecan-1-ol 112-53-8	5,13		not specified
Linalool 78-70-6	3,1	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Hexyl Cinnamal 101-86-0	5,3	24 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Benzyl salicylate 118-58-1	4	35 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Ethanol denatured 64-17-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Tetradecanol 112-72-1	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.
Dodecan-1-ol 112-53-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Linalool 78-70-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Benzyl salicylate 118-58-1	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

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Consider national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

ADR	1266
RID	1266
ADN	1266
IMDG	1266
IATA	1266

14.2. UN proper shipping name

ADR	PERFUMERY PRODUCTS
RID	PERFUMERY PRODUCTS
ADN	PERFUMERY PRODUCTS
IMDG	PERFUMERY PRODUCTS (Cetrimonium chloride)
IATA	Perfumery products

14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Environmentally Hazardous
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (D/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

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) Classification in conformity with the calculation method
Storage class according to TRGS 510:	3

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:

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 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.

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