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

Live Glossings - Cayenne Copper

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

1.1. Product identifier
Live Glossings - Cayenne Copper

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Hair Color/Toner, direct dyes

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: Daniela.Kessler-Becker@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):

Serious eye irritation	Category 2
Causes serious eye irritation.	
Skin sensitizer	Category 1
May cause an allergic skin reaction.	
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:	Warning
Hazard statement:	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statement: Prevention	P261 Avoid breathing mist/vapours. P273 Avoid release to the environment. P280 Wear protective gloves.
Precautionary statement: Response	P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337 If eye irritation persists: P362+P364 Take off contaminated clothing and wash it before reuse.

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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9 271-756-9 01-2119484817-22	>= 1- < 2,5 %	Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, Oral, H373	M acute = 1 M chronic = 1	
Nitrophenol, 4-[(2-Hydroxyethyl)Amino]-3- 65235-31-6 265-648-0	>= 0,25- < 1 %	Aquatic Chronic 2, H411 Skin Sens. 1A, H317		
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4 220-701-7	>= 0,25- < 1 %	Aquatic Chronic 2, H411 Skin Sens. 1B, H317		
Stearamidopropyl dimethylamine 7651-02-7 231-609-1 01-2119979089-19	>= 0,25- < 1 %	Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M acute = 1	
Amino-3-nitrophenol, 4- 610-81-1 210-236-8 01-2120760673-50	>= 0,1- < 0,25 %	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	oral:ATE = 501 mg/kg	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations 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.
Remove casualty immediately from danger zone. Take off immediately all contaminated clothing.

Inhalation:
Move to fresh air.

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

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

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

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

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).
After skin contact: Temporary irritation of the skin (redness, swelling, burning).
After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.
After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

4.3. Indication of any immediate medical attention and special treatment needed

After eye contact: No special action.
After skin contact: No special action.
After inhalation: No special action.
After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).
After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

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.

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)
Hair Color/Toner, direct dyes

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
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

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	Emulsion thixotropic dark orange/red/copper
Odor	characteristic
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	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))	3,5 - 4,5 pH value::47300
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic (Haake; Instrument: Haake VT 550; 20 °C (68 °F); Rotary measuring system: MV II)	10.000 - 20.000 mPa.s Viscosity (Haake)::65800
Viscosity, dynamic (Brookfield; Instrument: RVDV II+; 20 °C (68 °F); speed of rotation: 20 min-1; Spindle No: 6)	10.000 - 25.000 mPa.s Viscosity (Brookfield)::49200
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density (20 °C (68 °F))	0,970 - 1,010 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.
No information exists about acute toxic, irritative or otherwise harmful effects caused by the product.

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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	LD50	3.190 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Nitrophenol, 4-[(2-Hydroxyethyl)Amino]-3- 65235-31-6	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	LD50	3.400 mg/kg	rat	not specified
Stearamidopropyl dimethylamine 7651-02-7	LD50	3.480 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Amino-3-nitrophenol, 4- 610-81-1	LD50	> 500 - < 1.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Amino-3-nitrophenol, 4- 610-81-1	Acute toxicity estimate (ATE)	501 mg/kg		Expert judgement

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
Stearamidopropyl dimethylamine 7651-02-7	LD50	> 2.000 mg/kg	rabbit	not specified

Acute inhalative toxicity:

No data available.

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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Stearamidopropyl dimethylamine 7651-02-7	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Amino-3-nitrophenol, 4- 610-81-1	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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Stearamidopropyl dimethylamine 7651-02-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Amino-3-nitrophenol, 4- 610-81-1	Category 2B (mildly irritating to eyes)		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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	Sub-Category 1B (sensitising)	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Stearamidopropyl dimethylamine 7651-02-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Amino-3-nitrophenol, 4- 610-81-1	Sub-Category 1A (sensitising)	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	negative	in vitro mammalian cell micronucleus test	with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Stearamidopropyl dimethylamine 7651-02-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Stearamidopropyl dimethylamine 7651-02-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Stearamidopropyl dimethylamine 7651-02-7	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration 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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	NOAEL P 30 mg/kg NOAEL F1 30 mg/kg	screening	oral: gavage	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Stearamidopropyl dimethylamine 7651-02-7	NOAEL P 70 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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	NOAEL 10 mg/kg	oral: gavage	28 d daily, 7 d/w	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Stearamidopropyl dimethylamine 7651-02-7	NOAEL >= 200 mg/kg	dermal	13 weeks once daily (5 days/week)	rabbit	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Amino-3-nitrophenol, 4- 610-81-1	NOAEL > 250 mg/kg	oral: gavage	28 days daily	rat	not specified

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.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	LC50	3,5 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	NOEC	0,24 mg/l	9 d	Danio rerio	OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)
Nitrophenol, 4-[(2-Hydroxyethyl)Amino]-3- 65235-31-6	LC50	130 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Stearamidopropyl dimethylamine 7651-02-7	NOEC	0,1 mg/l	9 d	Danio rerio	OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)
Stearamidopropyl dimethylamine 7651-02-7	LC50	> 0,1 - 1 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	EC50	1,39 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Nitrophenol, 4-[(2-Hydroxyethyl)Amino]-3- 65235-31-6	EC50	3 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	EC50	4,15 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Stearamidopropyl dimethylamine 7651-02-7	EC50	0,381 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Amino-3-nitrophenol, 4- 610-81-1	EC50	3,36 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Quaternary ammonium	NOEC	0,128 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia

compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9					magna, Reproduction Test)
Stearamidopropyl dimethylamine 7651-02-7	NOEC	0,2 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.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	EC50	3,48 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	EC10	0,78 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	EC50	35,7 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	EC10	4,06 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Stearamidopropyl dimethylamine 7651-02-7	EC10	0,071 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Stearamidopropyl dimethylamine 7651-02-7	EC50	0,14 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amino-3-nitrophenol, 4-610-81-1	EC50	8,1 mg/l	7 d	other:	OECD Guideline 221 (Lemna sp. Growth Inhibition Test)
Amino-3-nitrophenol, 4-610-81-1	EC10	2,82 mg/l	7 d	other:	OECD Guideline 221 (Lemna sp. Growth Inhibition Test)

Toxicity (microorganisms):

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	EC50	43 mg/l	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	EC50	> 834 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Stearamidopropyl dimethylamine 7651-02-7	EC10	32 mg/l	16 h	not specified	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	not readily biodegradable.	aerobic	80 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Nitrophenol, 4-[(2-Hydroxyethyl)Amino]-3- 65235-31-6	not inherently biodegradable	aerobic	< 10 %		OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	not readily biodegradable.	aerobic	1,5 - 3 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Stearamidopropyl dimethylamine 7651-02-7	readily biodegradable	aerobic	88 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Amino-3-nitrophenol, 4- 610-81-1	not readily biodegradable.	aerobic	0 - 4,8 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	3,29	20 °C	QSAR (Quantitative Structure Activity Relationship)
2-(4-Amino-2-nitroanilino)ethanol 2871-01-4	0,27	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Stearamidopropyl dimethylamine 7651-02-7	2,01	20 °C	EU Method A.8 (Partition Coefficient)
Amino-3-nitrophenol, 4- 610-81-1	1,01	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or vPvB.

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

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

National regulations/information (Germany):

WGK:	WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV))
Storage class according to TRGS 510:	12

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:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
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.

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