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

BC Color Freeze Treatment

SDS No. : 515402
V001.1
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
BC Color Freeze 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 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):
Serious eye irritation Category 2
Causes serious eye irritation.

2.2. Label elements (CLP)

Hazard pictogram:

Signal word: Warning

Hazard statement: H319 Causes serious eye irritation.

Precautionary statement: Prevention Thorough skin-cleansing after handling the product.
P280 Wear eye protection/face protection.

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.
P337+P313 If eye irritation persists: Get medical advice/attention.

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
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	271-756-9	01-2119484817-22	>= 1- < 2,5 %	H400 Acute hazards to the aquatic environment 1 H412 Chronic hazards to the aquatic environment 3 H315 Skin irritation 2 H318 Serious eye damage 1 H373 Specific target organ toxicity - repeated exposure 2
Fatty acids, C12-20, reaction products with triethanolamine, di-Me sulfate-quaternized 91032-11-0	293-018-5		>= 1- < 2,5 %	H400 Acute hazards to the aquatic environment 1
Stearamidopropyl Dimethylamine 7651-02-7	231-609-1	01-2119979089-19	>= 0,25- < 1 %	H318 Serious eye damage 1 H400 Acute hazards to the aquatic environment 1 H411 Chronic hazards to the aquatic environment 2
Cetrimonium chloride 112-02-7	203-928-6	01-2119970558-23	>= 0,1- < 0,25 %	H302 Acute toxicity 4; Oral H314 Skin corrosion 1C H400 Acute hazards to the aquatic environment 1 H410 Chronic hazards to the aquatic environment 1

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 water. Take off all clothing contaminated by the product.

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

Ingestion:
Rinse the mouth. Drink 1-2 glasses of water.

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

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

No information.

6.2. Environmental precautions

Do not allow to enter drainage system, surface or ground water of not diluted product.
Do not dispose of in wastepaper bin or trash-can.

6.3. Methods and material for containment and cleaning up

Dilute small quantities with large amount of water and rinse.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling advice:
No particular measures required.

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 Treatment, rinse-off

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for
Germany

Contains no components with occupational exposure limit values.

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

The following data apply to the whole mixture:

Appearance	emulsion thixotropic light pink
Odor	floral
pH (20 °C (68 °F))	4,20 - 4,70
Initial boiling point	Not applicable
Flash point	Not applicable
Decomposition temperature	Not applicable
Vapour pressure	Not applicable
Density (20 °C (68 °F))	0,980 - 1,020 g/cm3
Bulk density	Not applicable
Viscosity (Brookfield; Instrument: RVT; 20 °C (68 °F); speed of rotation: 20 min-1; Spindle No: 5)	11.000 - 22.000 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

Acute oral toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Fatty acids, C12-20, reaction products with triethanolamine, di-Me sulfate-quaternized 91032-11-0			oral			
Stearamidopropyl Dimethylamine 7651-02-7	LD50	3.480 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Cetrimonium chloride 112-02-7	LD50	500 mg/kg	oral		rat	OECD Guideline 420 (Acute Oral Toxicity)

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Fatty acids, C12-20, reaction products with triethanolamine, di-Me sulfate-quaternized 91032-11-0			dermal			

Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Fatty acids, C12-20, reaction products with triethanolamine, di-Me sulfate-quaternized 91032-11-0			inhalation			

Skin corrosion/irritation:

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)

Serious eye damage/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Cetrimonium chloride 112-02-7	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Result	Test type	Species	Method
Stearamidopropyl Dimethylamine 7651-02-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Cetrimonium chloride 112-02-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Stearamidopropyl Dimethylamine 7651-02-7	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	bacterial reverse mutation assay (e.g Ames test)	with and without		

Repeated dose toxicity

Hazardous substances CAS-No.	ResultValue	Route of application	Exposure time / Frequency of treatment	Species	Method
Fatty acids, C12-20, reaction products with triethanolamine, di-Me sulfate-quaternized 91032-11-0					
Stearamidopropyl Dimethylamine 7651-02-7					
Cetrimonium chloride 112-02-7	100 mg/kg	oral: gavage	28 daysonce daily, 5 times a week	rat	EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))

Reproductive toxicity:

No data available.

SECTION 12: Ecological information

12.1. Toxicity

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

Toxicity (Fish):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	LC50	> 0,5 - 1 mg/l	Fish	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	Fish	9 d	Danio rerio	OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)
Cetrimonium chloride 112-02-7	NOEC	0,25 mg/l	Fish	30 d	Brachydanio rerio (new name: Danio rerio)	OECD 210 (fish early lite stage toxicity test)

Toxicity (Daphnia):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	EC50	1,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty acids, C12-20, reaction products with triethanolamine, di-Me sulfate-quaternized 91032-11-0	EC50	0,52 mg/l	Daphnia	48 h	Daphnia magna	
Stearamidopropyl Dimethylamine 7651-02-7	EC50	0,381 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cetrimonium chloride 112-02-7	EC50	0,09 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Toxicity (Algae):

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	EC50	3,4 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Stearamidopropyl Dimethylamine 7651-02-7	EC10	0,071 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cetrimonium chloride 112-02-7	EC50	0,08 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	ResultValue	Route of application	Degradability	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	readily biodegradable	aerobic	> 80 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Fatty acids, C12-20, reaction products with triethanolamine, di-Me sulfate-quaternized 91032-11-0		aerobic	94 %	ISO 10708 (BODIS-Test)
Stearamidopropyl Dimethylamine 7651-02-7	readily biodegradable	aerobic	88 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Cetrimonium chloride 112-02-7	readily biodegradable		95 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Hazardous substances CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides 68607-24-9	3,29				20 °C	
Stearamidopropyl Dimethylamine 7651-02-7	2,01				20 °C	EU Method A.8 (Partition Coefficient)
Cetrimonium chloride 112-02-7	3,23					

12.5. Results of PBT and vPvB assessment

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Consider national regulations.

SECTION 14: Transport information

14.1. UN 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:	2, water-endangering product. (German VwVwS of May 17, 1999) Classification in conformity with the calculation method
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:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
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.
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.