



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

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Syoss Big Sexy Volume BDS

SDS No. : 684815  
V001.0

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

#### 1.1. Product identifier

Syoss Big Sexy Volume BDS

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

Intended use:

Hairset, liquid

#### 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):

Flammable liquids Category 3

Flammable liquid and vapor.

Chronic hazards to the aquatic environment Category 3

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements (CLP)

Hazard pictogram:



<b>Signal word:</b>	Warning
<b>Hazard statement:</b>	H226 Flammable liquid and vapor. H412 Harmful to aquatic life with long lasting effects.
<b>Precautionary statement: Prevention</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P273 Avoid release to the environment.
<b>Precautionary statement: Response</b>	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
<b>Precautionary statement: Storage</b>	P403+P235 Store in a well-ventilated place. Keep cool.
<b>Precautionary statement: Disposal</b>	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.

### 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
Ethanol denatured 64-17-5	200-578-6	01-2119457610-43	>= 30- < 50 %	H225 Flammable liquids 2 H319 Serious eye irritation 2
Polyquaternium-11 is a quaternary ammonium polymer formed by the reaction of diethyl sulfate and a copolymer of vinyl pyrrolidone an 53633-54-8			>= 1- < 2,5 %	H400 Acute hazards to the aquatic environment 1 H410 Chronic hazards to the aquatic environment 1
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 H311 Acute toxicity 3; Dermal H318 Serious eye damage 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.

Remove casualty immediately from danger zone. Take off immediately all contaminated clothing.

Inhalation:  
Move to fresh air.

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:  
Carbon dioxide.

Extinguishing media which must not be used for safety reasons:  
High pressure waterjet

### 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 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

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:  
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)**

Hairset, liquid

**SECTION 8: Exposure controls/personal protection**

**Only relevant for professional/industrial use**

**8.1. Control parameters**

Valid for  
Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	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

**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	liquid clear, low viscosity colourless
Odor	floral, green
pH (20 °C (68 °F))	5 - 6
Initial boiling point	Not applicable
Flash point	26 °C (78.8 °F); DIN EN ISO 13736: Flash point, Abel, low viscosity::1876500
Decomposition temperature	Not applicable
Vapour pressure	Not applicable
Density (20 °C (68 °F))	0,949 - 0,955 g/cm3
Bulk density	Not applicable
Viscosity	Not applicable
Viscosity (kinematic)	Not applicable
Explosive properties	Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
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

Keep away from sources of ignition and naked flames.

### 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 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
Ethanol denatured 64-17-5	LD50	10.470 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)

#### 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)
Cetrimonium chloride 112-02-7	LD50	528 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
Ethanol denatured 64-17-5	LC50	124,7 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

#### Skin corrosion/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Cetrimonium chloride 112-02-7	Category 1C (corrosive)	4 h	rabbit	equivalent or similar to 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)
Cetrimonium chloride 112-02-7	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
Polyquaternium-11 is a quaternary ammonium polymer formed by the reaction of diethyl sulfate and a copolymer of vinyl pyrrolidone an 53633-54-8	not sensitising	Guinea pig maximisation test	rabbit	not specified
Cetrimonium chloride 112-02-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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)

**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
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)

**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
Ethanol denatured 64-17-5	LC50	> 12.000 - 16.000 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Polyquaternium-11 is a quaternary ammonium polymer formed by the reaction of diethyl sulfate and a copolymer of vinyl pyrrolidone an 53633-54-8	LC50	0,9 mg/l	96 h	Oncorhynchus mykiss	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 life 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)

**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)
Polyquaternium-11 is a quaternary ammonium polymer formed by the reaction of diethyl sulfate and a copolymer of vinyl pyrrolidone an 53633-54-8	EC50	35 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)

**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
Cetrimonium chloride 112-02-7	NOEC	0,0068 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)
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)

#### 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)
Cetrimonium chloride 112-02-7	EC10	0,4 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)

#### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Ethanol denatured 64-17-5	readily biodegradable	aerobic	> 70 %	5 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Polyquaternium-11 is a quaternary ammonium polymer formed by the reaction of diethyl sulfate and a copolymer of vinyl pyrrolidone an 53633-54-8	not readily biodegradable.	aerobic	2,3 - 2,7 %	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)

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Polyquaternium-11 is a quaternary ammonium polymer formed by the reaction of diethyl sulfate and a copolymer of vinyl pyrrolidone an 53633-54-8	1,824		not specified
Cetrimonium chloride 112-02-7	3,23		EU Method A.8 (Partition Coefficient)

### 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.
Polyquaternium-11 is a quaternary ammonium polymer formed by the reaction of diethyl sulfate and a copolymer of vinyl pyrrolidone an 53633-54-8	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.

**SECTION 14: Transport information****14.1. UN 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
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	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
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. 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 2: obviously hazardous to water (Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended )
Storage class according to TRGS 510:	Classification in conformity with the calculation method 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 vapor.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
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.

**Further information:**

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