

**esemtan® active gel      No Change Service!**

Version 02.01

Revision Date 16.04.2015

Date of last issue 10.03.2015

Date of first issue 07.09.2007

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

**1.1 Product identifier**

Trade name : esemtan® active gel

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

Use of the Sub-  
stance/Mixture : Cosmetics

**1.3 Details of the supplier of the safety data sheet**

Producer/Supplier : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
22851 Norderstedt  
Germany  
Telephone: +4940521000  
Telefax: +494052100318  
mail@schuelke.com  
www.schuelke.com

Contact person : Application Department HI  
+49 (0)40/ 521 00 544  
ADHI@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

**1.4 Emergency telephone number**

Emergency telephone num-  
ber : UK Poisons Emergency number: 0870 600 6266  
Emergency telephone num-  
ber : +49 (0)40 / 52 100 -0

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

**Classification (67/548/EEC, 1999/45/EC)**

R10: Flammable.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Supplemental Hazard  
Statements :

Although this product does not need to be  
labelled, we recommend to observe the  
safety instructions.

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**2.3 Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
No special risks known.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Chemical nature : Solution of the following substances with harmless additives.

**Hazardous components**

| Chemical Name | Index-Number<br>CAS-No.<br>EC-No.<br>Registration<br>number           | Classification<br>(67/548/EEC) | Classification<br>(REGULATION<br>(EC) No<br>1272/2008) | Concentration<br>(%) |
|---------------|---|--------------------------------|--|----------------------|
| Ethanol       | 603-002-00-5<br>64-17-5<br>200-578-6<br>01-<br>2119457610-<br>43-XXXX | F; R11                         | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319               | 48,7 %               |

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General advice : Take off all contaminated clothing immediately.  
In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
If swallowed : Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms : Treat symptomatically.

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

Treatment : For specialist advice physicians should contact the Poisons Information Service.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Dry powder, Alcohol-resistant foam, Water spray jet, Carbon dioxide (CO<sub>2</sub>)

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Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.

Specific risk from the substance or the product itself, its combustion products or evolved gases : No special risks to be expected.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Remove all sources of ignition.

**6.2 Environmental precautions**

Environmental precautions : No special environmental precautions required.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.4 Reference to other sections**

See chapter 13

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : Do not smoke.  
Advice on protection against fire and explosion : The hot product gives off combustible vapours. Keep away from sources of ignition - No smoking.  
Hygiene measures : Keep away from food and drink.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store at room temperature in the original container.  
Keep at temperature not exceeding 25 °C.  
  
Further information on storage conditions : Keep container tightly closed. Keep away from direct sunlight.  
Recommended storage temperature: 5 - 25°C  
  
Advice on common storage : No materials to be especially mentioned.

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**7.3 Specific end use(s)**

Specific use(s) : none

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters                   | Basis |
|------------|---------|-------------------------------|--------------------------------------|-------|
| Ethanol    | 64-17-5 | WEL                           | 1.000 ppm<br>1.920 mg/m <sup>3</sup> | HSE   |

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Ethanol : End Use: Workers, Exposure routes: Inhalation, Potential health effects: Acute effects, Local effects, Value: 1900 mg/m<sup>3</sup>  
 End Use: Workers, Exposure routes: Skin contact, Potential health effects: Chronic effects, Value: 343 mg/m<sup>3</sup>  
 End Use: Workers, Exposure routes: Inhalation, Potential health effects: Chronic effects, Value: 950 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Ethanol : Fresh water, Value: 0,96 mg/l  
 Marine water, Value: 0,79 mg/l  
 Fresh water sediment, Value: 3,6 mg/kg  
 Soil, Value: 0,63 mg/kg

**8.2 Exposure controls****Personal protective equipment**

Protective measures : Avoid contact with eyes.

**Environmental exposure controls**

General advice : No special environmental precautions required.

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

Appearance : structurally viscous  
 Colour : colourless  
 Odour : camphor like  
 Odour Threshold : not determined  
 Flash point : 20 °C, DIN 53213, Part 1  
 Ignition temperature : Ethanol: > 360 °C  
 Auto-ignition temperature : Not applicable  
 Lower explosion limit : Ethanol: 3,1 %(V)  
 Upper explosion limit : Ethanol: 15 %(V)  
 Flammability : Sustains combustion  
 Explosive properties : Not explosive  
 Oxidizing properties : Not applicable  
 pH : ca. 5 - 6, 20 °C  
 Melting point/freezing point : < -5 °C

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|  |  |
|--|--|
| Decomposition temperature              | No data available                        |
| Boiling point/boiling range            | : ca. 80 °C,                             |
| Vapour pressure                        | : 59 hPa, 20 °C,                         |
| Relative vapour density                | : No data available                      |
| Density                                | : ca. 0,92 g/cm <sup>3</sup> , 20 °C     |
| Water solubility                       | : in all proportions, 20 °C              |
| Partition coefficient: n-octanol/water | : Not applicable                         |
| Viscosity, dynamic                     | : 1.600 - 2.400 mPa*s, 20 °C, DIN 53019, |
| Evaporation rate                       | : No data available                      |

## 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

None reasonably foreseeable.

### 10.4 Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

None reasonably foreseeable.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product

Acute oral toxicity : LD50: > 15000 mg/kg, Rat

##### Components:

##### Ethanol:

Acute inhalation toxicity : LC50: 39 mg/l, 4 h, Mouse

Acute dermal toxicity : LD50: 20000 mg/kg, Rabbit

#### Skin corrosion/irritation

##### Product

No skin irritation, Rabbit

#### Serious eye damage/eye irritation

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**Product**

Mildly irritant - does not need to be labelled, Rabbit

**Respiratory or skin sensitisation**

**Product**

Contains no substance or substances classified as sensitising. May cause sensitisation of susceptible persons by skin contact.

**Germ cell mutagenicity**

**Components:**

**Ethanol:**

|                                    |   |
|------------------------------------|---|
| Genotoxicity in vitro              | : Not mutagenic in Ames Test OECD Test Guideline 471                            |
| Genotoxicity in vivo               | : not mutagenic   |
| Germ cell mutagenicity- Assessment | : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. |

**Carcinogenicity**

**Components:**

**Ethanol:**

|                              |  |
|------------------------------|--|
| Carcinogenicity - Assessment | : Did not show carcinogenic effects in animal experiments. |
|------------------------------|--|

**Reproductive toxicity**

**Components:**

**Ethanol:**

|                                    |   |
|------------------------------------|---|
| Effects on foetal development      | : Rat, Oral, NOAEL: 2.000 mg/kg   |
| Reproductive toxicity - Assessment | : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance. |
| Teratogenicity - Assessment        | : Animal experiments showed mutagenic and teratogenic effects.  |

**STOT - single exposure**

**Components:**

**Ethanol:**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**

**Components:**

**Ethanol:**

Rat: NOAEL: 2.400 mg/kg, Oral

**Aspiration toxicity**

No data available

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**SECTION 12: Ecological information****12.1 Toxicity****Components:****Ethanol:**

|   |  |
|---|--|
| Toxicity to fish                                    | : LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l, 48 h          |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 5.000 mg/l, 48 h          |
| Toxicity to algae                                   | : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l, 72 h |

**12.2 Persistence and degradability****Product**

|                              |   |
|------------------------------|---|
| Biodegradability             | : Readily biodegradable OECD 301D / EEC 84/449 C6 |
| Chemical Oxygen Demand (COD) | : 9.400 mg/l, 1% solution                         |

**Components:****Ethanol:**

|                  |                         |
|------------------|-------------------------|
| Biodegradability | : Readily biodegradable |
|------------------|-------------------------|

**12.3 Bioaccumulative potential****Product**

|  |                  |
|--|------------------|
| Partition coefficient: n-octanol/water | : Not applicable |
|--|------------------|

**Components:****Ethanol:**

|  |                                |
|--|--------------------------------|
| Bioaccumulation                        | : Bioaccumulation is unlikely. |
| Partition coefficient: n-octanol/water | : log Pow: -0,14, calculated   |

**12.4 Mobility in soil****Components:****Ethanol:**

|          |                     |
|----------|---------------------|
| Mobility | : No data available |
|----------|---------------------|

**12.5 Results of PBT and vPvB assessment****Product**

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

**12.6 Other adverse effects****Product**

|                                   |        |
|-----------------------------------|--------|
| Additional ecological information | : none |
|-----------------------------------|--------|

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

|                        |   |
|------------------------|---|
| Product                | : Dispose of the product according to the defined EWC (European Waste Code) No. |
| Contaminated packaging | : Take empty packaging to the recycling plant.                                  |

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Waste key for the unused product : EWC 070604  
Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

**SECTION 14: Transport information****14.1 UN number**

ADR : UN 1170  
IMDG : UN 1170  
IATA : UN 1170

**14.2 UN proper shipping name**

ADR : ETHANOL, SOLUTION  
IMDG : ETHANOL SOLUTION  
IATA : Ethanol solution

**14.3 Transport hazard class(es)**

ADR : 3  
IMDG : 3  
IATA : 3

**14.4 Packing group**

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : D/E

**IMDG**  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D

**IATA**  
Packing instruction (cargo aircraft) : 364  
Packing group : II  
Labels : 3

**14.5 Environmental hazards**

**ADR**  
Environmentally hazardous : no

**IMDG**  
Marine pollutant : no

**14.6 Special precautions for user**

For personal protection see section 8.



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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislation on the control of major-accident hazards involving dangerous substances : The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

Volatile organic compounds : 49 %, Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

**15.2 Chemical Safety Assessment**

Exempt

**SECTION 16: Other information**

**Full text of R-Phrases**

R11 : Highly flammable.

**Full text of H-Statements**

H225 : Highly flammable liquid and vapour.

H319 : Causes serious eye irritation.

**Full text of other abbreviations**

|            |                   |
|------------|-------------------|
| Eye Irrit. | Eye irritation    |
| Flam. Liq. | Flammable liquids |

**Further information**

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.