



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

**1.1. Product identifier**

**Name of product** Stain remover

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

**Recommended intended purpose(s)**  
cleaner

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

**Distributor** Daimler AG  
D-70546 Stuttgart Germany

**Advice**

Phone +49 (0)711 17-97390  
Fax +49 (0)711 17-94831  
E-mail (competent person):  
Mercedes-Benz-SDB@daimler.com

**1.4. Emergency telephone number**

**Emergency advice**  
Phone +49 (0)711 17-0

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories      Hazard Statements      Classification procedure

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| STOT SE 3         | H336 |
| Asp. Tox. 1       | H304 |
| Aquatic Chronic 3 | H412 |

**Hazard statements for physical hazards**

H226 Flammable liquid and vapour.

**! Hazard statements for health hazards**

H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**



GHS02



GHS07



GHS08



### Signal word

Danger

### Hazard statements for physical hazards

H226 Flammable liquid and vapour.

### ! Hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

### Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

### Precautionary Statements

#### General

P102 Keep out of reach of children.

#### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

### ! Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

#### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

#### Disposal

P501 Dispose of contents/container in accordance with regional regulations.

### Hazardous ingredients for labeling

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclens, <2% aromatic compounds

### Supplemental Hazard information (EU)

#### Health properties

Repeated exposure may cause skin dryness or cracking.

#### 2.3. Other hazards

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Description

Mixture of the following substances with non-hazardous admixtures.

#### Hazardous ingredients

**Stain remover**

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**Hazardous ingredients (continued)**

| CAS No   | EC No     | Name   | [%]      | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]                                      |
|----------|-----------|--|----------|---|
| 111-76-2 | 203-905-0 | 2-butoxyethanol  | 2,5 - 5  | Acute Tox. 4, H332 / Acute Tox. 4, H312 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Skin Irrit. 2, H315 |
|          | 927-241-2 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclens, <2% aromatic compounds | 50 - 100 | Flam. Liq. 3, H226 / STOT SE 3, H336 / Asp. Tox. 1, H304 / Aquatic Chronic 3, H412 /                    |

**REACH**

| CAS No   | Name   | REACH registration number |
|----------|--|---------------------------|
| 111-76-2 | 2-butoxyethanol  | 01-2119475108-36          |
|          | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclens, <2% aromatic compounds | 01-2119471843-32          |

**Labelling for contents according to regulation (EC) No 648/2004, annex VII**

30 % and more aliphatic hydrocarbons

**SECTION 4: First aid measures****4.1. Description of first aid measures****In case of inhalation**

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

**In case of ingestion**

Do not induce vomiting.

Call for a doctor immediately.

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

No information available.

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

No information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

**Unsuitable extinguishing media**

Full water jet



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

Fire gas of organic material has to be classed invariably as respiratory poison.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

**Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Ensure adequate ventilation.

Use personal protective clothing.

Keep away unprotected persons

**For emergency responders**

Ensure adequate ventilation.

Use personal protective clothing.

Keep away unprotected persons

**6.2. Environmental precautions**

Inform respective authorities in case of seepage into water course or sewage system.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Provide for appropriate ventilation/aspiration at the work station

**General protective measures**

Avoid continuous and intensive skin contact

Do not inhale gases/vapours/aerosols.

**Hygiene measures**

At work do not eat, drink and smoke.

Keep away from food and drink.

Wash hands before breaks and after work.

Use barrier skin cream.

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**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking  
Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container closed tightly. Store package in a cool and dry area.

**Advice on storage compatibility**

no

**Further information on storage conditions**

Keep container in a well-ventilated place

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)**

| CAS No   | Name            | Code       | [mg/m <sup>3</sup> ] | [ppm] | Remark |
|----------|-----------------|------------|----------------------|-------|--------|
| 111-76-2 | 2-butoxyethanol | 8 hours    | 98                   | 20    | skin   |
|          |                 | Short-term | 246                  | 50    |        |

**DNEL-/PNEC-values****DNEL worker**

| CAS No   | Substance name  | Value                 | Code                                     | Remark |
|----------|-----------------|-----------------------|--|--------|
| 111-76-2 | 2-butoxyethanol | 98 mg/m <sup>3</sup>  | DNEL acute inhalative (systemic)         |        |
|          |                 | 75 mg/kg bw/day       | DNEL long-term dermal (systemic)         |        |
|          |                 | 246 mg/m <sup>3</sup> | DNEL acute inhalative (local)            |        |
|          |                 | 663 mg/m <sup>3</sup> | DNEL acute inhalative (systemic)         |        |
|          |                 | 89 mg/kg bw/day       | DNEL acute dermal, short-term (systemic) |        |

**DNEL Consumer**

| CAS No   | Substance name  | Value                 | Code                                     | Remark |
|----------|-----------------|-----------------------|--|--------|
| 111-76-2 | 2-butoxyethanol | 3,2 mg/kg bw/day      | DNEL short-term oral (acute)             |        |
|          |                 | 13,4 mg/kg bw/day     | DNEL short-term oral (acute)             |        |
|          |                 | 426 mg/m <sup>3</sup> | DNEL acute inhalative (systemic)         |        |
|          |                 | 44,5 mg/kg bw/day     | DNEL acute dermal, short-term (systemic) |        |
|          |                 | 123 mg/m <sup>3</sup> | DNEL acute inhalative (local)            |        |
|          |                 | 49 mg/m <sup>3</sup>  | DNEL long-term inhalative (systemic)     |        |
|          |                 | 38 mg/kg bw/day       | DNEL acute dermal, short-term (systemic) |        |



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**PNEC**

| CAS No   | Substance name  | Value         | Code                              | Remark |
|----------|-----------------|---------------|-----------------------------------|--------|
| 111-76-2 | 2-butoxyethanol | 34,6 mg/kg dw | PNEC sediment, freshwater         |        |
|          |                 | 8,8 mg/l      | PNEC aquatic, freshwater          |        |
|          |                 | 3,46 mg/kg dw | PNEC sediment, marine water       |        |
|          |                 | 463 mg/l      | PNEC sewage treatment plant (STP) |        |
|          |                 | 2,8 mg/kg     | PNEC soil                         |        |
|          |                 | 0,88 mg/l     | PNEC aquatic, marine water        |        |

**8.2. Exposure controls**

**Respiratory protection**

Breathing apparatus in the event of aerosol or mist formation.  
Breathing apparatus in the event of high concentrations.

**Hand protection**

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Glove materials data [type, thickness, breakthrough time/duration of use, permeation rate]: Nitrile rubber (protection index 6, >480 min, thickness 0.9-1.0 mm)

**Eye protection**

safety goggles

**Other protection measures**

Protective clothing

**Appropriate engineering controls**

Sufficient ventilation and exhaustion.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

liquid

**Colour**

colourless

**Odour**

product-specific

**Odour threshold**

not determined

**Important health, safety and environmental information**

|                      | Value          | Temperature | at | Method | Remark |
|----------------------|----------------|-------------|----|--------|--------|
| <b>pH value</b>      | not determined |             |    |        |        |
| <b>boiling range</b> | not determined |             |    |        |        |
| <b>melting point</b> | not determined |             |    |        |        |
| <b>Flash point</b>   | 28 °C          |             |    |        |        |



|  | Value          | Temperature | at | Method | Remark                            |
|--|----------------|-------------|----|--------|-----------------------------------|
| <b>Vapourisation rate</b>                                | not determined |             |    |        |                                   |
| <b>Flammable (solid)</b>                                 | not applicable |             |    |        |                                   |
| <b>Flammability (gas)</b>                                | not applicable |             |    |        |                                   |
| <b>Ignition temperature</b>                              | not determined |             |    |        |                                   |
| <b>Self ignition temperature</b>                         |                |             |    |        | The product is not self-igniting. |
| <b>Lower explosion limit</b>                             | not determined |             |    |        |                                   |
| <b>Upper explosion limit</b>                             | not determined |             |    |        |                                   |
| <b>Vapour pressure</b>                                   | not determined |             |    |        |                                   |
| <b>Relative density</b>                                  | 0,76           | 20 °C       |    |        |                                   |
| <b>Vapour density</b>                                    | not determined |             |    |        |                                   |
| <b>Solubility in water</b>                               |                |             |    |        | No or low immiscibility           |
| <b>Solubility/other</b>                                  | not determined |             |    |        |                                   |
| <b>Partition coefficient n-octanol/water (log P O/W)</b> | not determined |             |    |        |                                   |
| <b>Decomposition temperature</b>                         | not determined |             |    |        |                                   |
| <b>Viscosity dynamic</b>                                 | not determined |             |    |        |                                   |

**Oxidising properties**

No information available.

**Explosive properties**

Does not apply; nevertheless can be produced explosive vapour/air mixtures

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reactions known.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.



**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**Thermal decomposition**

Remark No decomposition if used as directed.

**Additional information**

No risk of production of decomposition products when appropriately handled and stored

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

|                              | Value/Validation                | Species | Method | Remark                                     |
|------------------------------|---------------------------------|---------|--------|--|
| <b>LD50 acute oral</b>       | > 5000 mg/kg                    | rat     |        | Information concerns to main component.    |
| <b>LD50 acute dermal</b>     | > 5000 mg/kg                    | rabbit  |        | Information refers to the main components. |
| <b>LC50 acute inhalation</b> | 4951 mg/l (4 h)                 | rat     |        | Information refers to the main components. |
| <b>Skin irritation</b>       | non-irritant                    |         |        |  |
| <b>Eye irritation</b>        | low irritant - no labeling duty |         |        |  |
| <b>Skin sensitization</b>    | non-sensitizing                 |         |        |  |

**Experiences made from practice**

Frequent and continuous skin contact can cause skin problems and dermatitis

**SECTION 12: Ecological information**

**12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**





No information available.

**12.4. Mobility in soil**

No information available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

**General regulation**

Do not allow uncontrolled leakage of product into the environment.  
Product is not allowed to be discharged into the ground water or aquatic environment.  
Harmful to aquatic organisms.  
Fish-toxic

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Recommendations for the product**

Do not dispose together with domestic waste  
Remove in accordance with local official regulations.  
Avoid penetration into sewage system

**Recommendations for packaging**

Disposal in accordance with local regulations.

**General information**

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector

**SECTION 14: Transport information**

|   | ADR/RID   | IMDG  | IATA-DGR  |
|---|---|---|---|
| <b>14.1. UN number</b>                  | 3295  | 3295  | 3295  |
| <b>14.2. UN proper shipping name</b>    | HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclens, <2% aromatic compounds) | HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclens, <2% aromatic compounds) | Hydrocarbons, liquid, n.o.s. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclens, <2% aromatic compounds) |
| <b>14.3. Transport hazard class(es)</b> | 3   | 3   | 3   |
| <b>14.4. Packing group</b>              | III   | III   | III   |
| <b>14.5. Environmental hazards</b>      | No  | No  | No  |

**14.6. Special precautions for user**

No information available.



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

not applicable

**Land and inland navigation transport ADR/RID**

Hazard label(s) 3

tunnel restriction code D/E

Classification code F1

Transport as "limited quantity" in compliance with chapter 3.4 ADR

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**SECTION 15: Regulatory information**

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

**VOC standard**

VOC content 100 %

**15.2. Chemical Safety Assessment**

Substance safety analysis was not performed for this mixture.

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**SECTION 16: Other information**

**Recommended uses and restrictions**

Adhere to existing national and local rules referring to chemicals.

**Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.5

**Sources of key data used**

Safety data sheets of suppliers

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.