



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

Page 1 of 21

Teroson AD Adhesive Spray

SDS No. : 460478  
V006.0

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

#### 1.1. Product identifier

Teroson AD Adhesive Spray

#### Contains:

Methyl acetate

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

Intended use:  
Spray adhesive

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

Henkel AG & Co. KGaA  
Henkelstr. 67  
40589 Düsseldorf

Germany

Phone: +49 211 797 0  
Fax-no.: +49 211 798 2009

ua-productsafety.de@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 (CLP):

|   |            |
|---|------------|
| Aerosols  | Category 1 |
| H222 Extremely flammable aerosol.                       |            |
| Aerosols  | Category 3 |
| H229 Pressurised container: May burst if heated.        |            |
| Skin irritation   | Category 2 |
| H315 Causes skin irritation.                            |            |
| Serious eye irritation                                  | Category 2 |
| H319 Causes serious eye irritation.                     |            |
| Specific target organ toxicity - single exposure        | Category 3 |
| H336 May cause drowsiness or dizziness.                 |            |
| Target organ: Central Nervous System                    |            |
| Chronic hazards to the aquatic environment              | Category 3 |
| H412 Harmful to aquatic life with long lasting effects. |            |

## 2.2. Label elements

### Label elements (CLP):

#### Hazard pictogram:



#### Signal word:

Danger

#### Hazard statement:

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

#### Precautionary statement: Prevention

P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P251 Do not pierce or burn, even after use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P211 Do not spray on an open flame or other ignition source.

#### Precautionary statement: Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

#### Precautionary statement: Disposal

P501 Dispose of contents/container in accordance with national regulation.

## 2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General chemical description:

Spray adhesive

#### Base substances of preparation:

Styrene-butadiene copolymer  
in a mixture of organic solvents  
Propellant gas base: propane/butane

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.  | EC Number<br>REACH-Reg No.           | content    | Classification  |
|--|--------------------------------------|------------|---|
| Methyl acetate<br>79-20-9  | 201-185-2                            | 20- 40 %   | Flam. Liq. 2<br>H225<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H336   |
| Isobutane<br>75-28-5   | 200-857-2<br>01-2119485395-27        | 20- 40 %   | Flam. Gas 1<br>H220<br>Press. Gas   |
| Propane<br>74-98-6   | 200-827-9<br>01-2119486944-21        | 10- 20 %   | Flam. Gas 1<br>H220<br>Press. Gas   |
| Hydrocarbons, C6-C7, isoalkanes, cyclics,<br><5% n-hexane<br>92128-66-0            | 295-763-1<br>01-2119486291-36        | 1- < 5 %   | Flam. Liq. 2<br>H225<br>Asp. Tox. 1<br>H304<br>STOT SE 3<br>H336  |
| Ethyl acetate<br>141-78-6  | 205-500-4<br>01-2119475103-46        | 1- < 3 %   | Flam. Liq. 2<br>H225<br>STOT SE 3<br>H336<br>Eye Irrit. 2<br>H319   |
| Hydrocarbons, C6-C7, n-alkanes,<br>isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | 295-763-1<br>01-2119475514-35        | 1- < 3 %   | Flam. Liq. 2<br>H225<br>Asp. Tox. 1<br>H304<br>Skin Irrit. 2<br>H315<br>STOT SE 3<br>H336<br>Aquatic Chronic 2<br>H411                    |
| Hydrocarbons, C7, n-alkanes, isoalkanes,<br>cyclics<br>93924-37-9                  | 300-230-4<br>01-2119475515-33        | 1- < 3 %   | Asp. Tox. 1<br>H304<br>Skin Irrit. 2<br>H315<br>Flam. Liq. 2<br>H225<br>STOT SE 3; Inhalation<br>H336<br>Aquatic Chronic 2<br>H411        |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0                           | 01-2119475514-35<br>01-2119484651-34 | 1- < 3 %   | Flam. Liq. 2<br>H225<br>Asp. Tox. 1<br>H304<br>Skin Irrit. 2<br>H315<br>STOT SE 3<br>H336<br>Aquatic Chronic 2<br>H411                    |
| Cyclohexane<br>110-82-7  | 203-806-2<br>01-2119463273-41        | 0,1- < 1 % | Asp. Tox. 1<br>H304<br>STOT SE 3<br>H336<br>Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410<br>Flam. Liq. 2<br>H225<br>Skin Irrit. 2 |

|                                  |   |             | H315  |
|----------------------------------|---|-------------|---|
| Butyl hydroxytoluene<br>128-37-0 | 204-881-4<br>01-2119480433-40<br>01-2119555270-46<br>01-2119565113-46 | 0,1 - < 1 % | Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410  |
| n-Hexane<br>110-54-3             | 203-777-6<br>01-2119480412-44   | 0,1 - < 1 % | Flam. Liq. 2<br>H225<br>Repr. 2<br>H361f<br>Asp. Tox. 1<br>H304<br>STOT RE 2<br>H373<br>Skin Irrit. 2<br>H315<br>STOT SE 3<br>H336<br>Aquatic Chronic 2<br>H411 |

**For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:**

In case of adverse health effects seek medical advice.

**Inhalation:**

Move to fresh air, consult doctor if complaint persists.

**Skin contact:**

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

**Eye contact:**

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

**Ingestion:**

Rinse mouth, do not induce vomiting, consult a doctor.

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

Causes serious eye irritation.

Vapors may cause drowsiness and dizziness.

SKIN: Redness, inflammation.

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

**5.3. Advice for firefighters**

Wear protective equipment.

Wear self-contained breathing apparatus.

**Additional information:**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures**

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

Wear protective equipment.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Avoid skin and eye contact.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Ensure good ventilation/extraction.

Store in a cool, frost-free place.

Storage at 15 to 25°C is recommended.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

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

Spray adhesive

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Germany

| Ingredient [Regulated substance]         | ppm   | mg/m <sup>3</sup> | Value type                          | Short term exposure limit category / Remarks   | Regulatory list |
|--|-------|-------------------|-------------------------------------|--|-----------------|
| Methyl acetate<br>79-20-9                | 200   | 610               | Exposure limit(s):                  | 4<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Methyl acetate<br>79-20-9                |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Isobutane<br>75-28-5                     | 1.000 | 2.400             | Exposure limit(s):                  | 4  | TRGS 900        |
| Isobutane<br>75-28-5                     |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Propane<br>74-98-6                       | 1.000 | 1.800             | Exposure limit(s):                  | 4  | TRGS 900        |
| Propane<br>74-98-6                       |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Ethyl acetate<br>141-78-6                | 400   | 1.500             | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| Ethyl acetate<br>141-78-6                |       |                   | 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        |
| n-Hexane<br>110-54-3<br>[N-HEXANE]       | 20    | 72                | Time Weighted Average (TWA):        | Indicative   | ECLTV           |
| n-Hexane<br>110-54-3                     | 50    | 180               | Exposure limit(s):                  | 8<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |
| n-Hexane<br>110-54-3                     |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Cyclohexane<br>110-82-7<br>[CYCLOHEXANE] | 200   | 700               | Time Weighted Average (TWA):        | Indicative   | ECLTV           |
| Cyclohexane<br>110-82-7                  | 200   | 700               | Exposure limit(s):                  | 4  | TRGS 900        |
| Cyclohexane<br>110-82-7                  |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| 2,6-di-tert-Butyl-p-cresol<br>128-37-0   |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| 2,6-di-tert-Butyl-p-cresol<br>128-37-0   |       | 10                | Exposure limit(s):                  | 4<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).                             | TRGS 900        |

**Predicted No-Effect Concentration (PNEC):**

| Name on list                           | Environmental Compartment          | Exposure period | Value           |     |                |        | Remarks |
|--|------------------------------------|-----------------|-----------------|-----|----------------|--------|---------|
|  |                                    |                 | mg/l            | ppm | mg/kg          | others |         |
| Ethyl acetate<br>141-78-6              | aqua<br>(freshwater)               |                 | 0,26 mg/l       |     |                |        |         |
| Ethyl acetate<br>141-78-6              | aqua (marine<br>water)             |                 | 0,026 mg/l      |     |                |        |         |
| Ethyl acetate<br>141-78-6              | aqua<br>(intermittent<br>releases) |                 | 1,65 mg/l       |     |                |        |         |
| Ethyl acetate<br>141-78-6              | sewage<br>treatment plant<br>(STP) |                 | 650 mg/l        |     |                |        |         |
| Ethyl acetate<br>141-78-6              | sediment<br>(freshwater)           |                 |                 |     | 1,25 mg/kg     |        |         |
| Ethyl acetate<br>141-78-6              | sediment<br>(marine water)         |                 |                 |     | 0,125<br>mg/kg |        |         |
| Ethyl acetate<br>141-78-6              | oral                               |                 |                 |     | 200 mg/kg      |        |         |
| Ethyl acetate<br>141-78-6              | soil                               |                 |                 |     | 0,24 mg/kg     |        |         |
| Cyclohexane<br>110-82-7                | aqua<br>(freshwater)               |                 | 0,207 mg/l      |     |                |        |         |
| Cyclohexane<br>110-82-7                | aqua (marine<br>water)             |                 | 0,207 mg/l      |     |                |        |         |
| Cyclohexane<br>110-82-7                | aqua<br>(intermittent<br>releases) |                 | 0,207 mg/l      |     |                |        |         |
| Cyclohexane<br>110-82-7                | sediment<br>(freshwater)           |                 |                 |     | 3,627<br>mg/kg |        |         |
| Cyclohexane<br>110-82-7                | sediment<br>(marine water)         |                 |                 |     | 3,627<br>mg/kg |        |         |
| Cyclohexane<br>110-82-7                | soil                               |                 |                 |     | 2,99 mg/kg     |        |         |
| Cyclohexane<br>110-82-7                | sewage<br>treatment plant<br>(STP) |                 | 3,24 mg/l       |     |                |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | soil                               |                 |                 |     | 47,69<br>µg/kg |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | sewage<br>treatment plant<br>(STP) |                 | 0,17 mg/l       |     |                |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | sediment<br>(freshwater)           |                 |                 |     | 99,6 µg/kg     |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | oral                               |                 |                 |     | 8,33 mg/kg     |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | aqua (marine<br>water)             |                 | 0,0199 µg/l     |     |                |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | aqua<br>(freshwater)               |                 | 0,199 µg/l      |     |                |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | sediment<br>(marine water)         |                 |                 |     | 9,96 µg/kg     |        |         |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0 | aqua<br>(intermittent<br>releases) |                 | 0,00199<br>mg/l |     |                |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value              | Remarks |
|---|--------------------|-------------------|--|---------------|--------------------|---------|
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | Workers            | dermal            | Long term exposure - systemic effects        |               | 13964 mg/kg bw/day |         |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | Workers            | inhalation        | Long term exposure - systemic effects        |               | 5306 mg/m3         |         |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | General population | dermal            | Long term exposure - systemic effects        |               | 1377 mg/kg bw/day  |         |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | General population | inhalation        | Long term exposure - systemic effects        |               | 1131 mg/m3         |         |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | General population | oral              | Long term exposure - systemic effects        |               | 1301 mg/kg bw/day  |         |
| Ethyl acetate<br>141-78-6   | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 1468 mg/m3         |         |
| Ethyl acetate<br>141-78-6   | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 1468 mg/m3         |         |
| Ethyl acetate<br>141-78-6   | Workers            | dermal            | Long term exposure - systemic effects        |               | 63 mg/kg           |         |
| Ethyl acetate<br>141-78-6   | Workers            | inhalation        | Long term exposure - systemic effects        |               | 734 mg/m3          |         |
| Ethyl acetate<br>141-78-6   | Workers            | inhalation        | Long term exposure - local effects           |               | 734 mg/m3          |         |
| Ethyl acetate<br>141-78-6   | General population | Inhalation        | Acute/short term exposure - systemic effects |               | 734 mg/m3          |         |
| Ethyl acetate<br>141-78-6   | General population | inhalation        | Acute/short term exposure - local effects    |               | 734 mg/m3          |         |
| Ethyl acetate<br>141-78-6   | General population | dermal            | Long term exposure - systemic effects        |               | 37 mg/kg           |         |
| Ethyl acetate<br>141-78-6   | General population | inhalation        | Long term exposure - systemic effects        |               | 367 mg/m3          |         |
| Ethyl acetate<br>141-78-6   | General population | oral              | Long term exposure - systemic effects        |               | 4,5 mg/kg          |         |
| Ethyl acetate<br>141-78-6   | General population | inhalation        | Long term exposure - local effects           |               | 367 mg/m3          |         |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | Workers            | dermal            | Long term exposure - systemic effects        |               | 773 mg/kg bw/day   |         |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | Workers            | inhalation        | Long term exposure - systemic effects        |               | 2035 mg/m3         |         |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | General population | dermal            | Long term exposure - systemic effects        |               | 699 mg/kg bw/day   |         |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | General population | inhalation        | Long term exposure - systemic effects        |               | 608 mg/m3          |         |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | General population | oral              | Long term exposure - systemic effects        |               | 699 mg/kg bw/day   |         |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>93924-37-9                  | Workers            | dermal            | Long term exposure - systemic effects        |               | 300 mg/kg bw/day   |         |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>93924-37-9                  | Workers            | Inhalation        | Long term exposure - systemic effects        |               | 2085 mg/m3         |         |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics                                | General population | dermal            | Long term exposure -                         |               | 149 mg/kg bw/day   |         |



|  |                    |            |  |  |                  |
|--|--------------------|------------|--|--|------------------|
| 93924-37-9   |                    |            | systemic effects                             |  |                  |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>93924-37-9 | General population | oral       | Long term exposure - systemic effects        |  | 149 mg/kg bw/day |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>93924-37-9 | General population | Inhalation | Long term exposure - systemic effects        |  | 447 mg/m3        |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0       | Workers            | dermal     | Long term exposure - systemic effects        |  | 773 mg/kg        |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0       | General population | oral       | Long term exposure - systemic effects        |  | 699 mg/kg        |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0       | General population | dermal     | Long term exposure - systemic effects        |  | 699 mg/kg        |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0       | General population | Inhalation | Long term exposure - systemic effects        |  | 608 mg/m3        |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0       | Workers            | Inhalation | Long term exposure - systemic effects        |  | 2035 mg/m3       |
| Cyclohexane<br>110-82-7  | Workers            | Inhalation | Acute/short term exposure - local effects    |  | 700 mg/m3        |
| Cyclohexane<br>110-82-7  | Workers            | Inhalation | Acute/short term exposure - systemic effects |  | 700 mg/m3        |
| Cyclohexane<br>110-82-7  | Workers            | Inhalation | Long term exposure - systemic effects        |  | 700 mg/m3        |
| Cyclohexane<br>110-82-7  | Workers            | Inhalation | Long term exposure - local effects           |  | 700 mg/m3        |
| Cyclohexane<br>110-82-7  | Workers            | dermal     | Long term exposure - systemic effects        |  | 2016 mg/kg       |
| Cyclohexane<br>110-82-7  | General population | Inhalation | Acute/short term exposure - systemic effects |  | 412 mg/m3        |
| Cyclohexane<br>110-82-7  | General population | Inhalation | Acute/short term exposure - local effects    |  | 412 mg/m3        |
| Cyclohexane<br>110-82-7  | General population | dermal     | Long term exposure - systemic effects        |  | 1186 mg/kg       |
| Cyclohexane<br>110-82-7  | General population | oral       | Long term exposure - systemic effects        |  | 59,4 mg/kg       |
| Cyclohexane<br>110-82-7  | General population | Inhalation | Long term exposure - systemic effects        |  | 206 mg/m3        |
| Cyclohexane<br>110-82-7  | General population | Inhalation | Long term exposure - local effects           |  | 206 mg/m3        |
| Cyclohexane<br>110-82-7  | Workers            | dermal     | Long term exposure - systemic effects        |  | 2016 mg/kg       |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0                         | Workers            | inhalation | Long term exposure - systemic effects        |  | 3,5 mg/m3        |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0                         | Workers            | dermal     | Long term exposure - systemic effects        |  | 0,5 mg/kg        |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0                         | General population | inhalation | Long term exposure - systemic effects        |  | 0,86 mg/m3       |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0                         | General population | dermal     | Long term exposure - systemic effects        |  | 0,25 mg/kg       |
| 2,6-Di-tert-butyl-p-cresol<br>128-37-0                         | General population | oral       | Long term exposure - systemic effects        |  | 0,25 mg/kg       |
| n-Hexane<br>110-54-3   | General population | inhalation | Long term exposure - systemic effects        |  | 16 mg/m3         |

|                      |                    |            |                                       |  |           |  |
|----------------------|--------------------|------------|---------------------------------------|--|-----------|--|
| n-Hexane<br>110-54-3 | Workers            | dermal     | Long term exposure - systemic effects |  | 11 mg/kg  |  |
| n-Hexane<br>110-54-3 | General population | dermal     | Long term exposure - systemic effects |  | 5,3 mg/kg |  |
| n-Hexane<br>110-54-3 | Workers            | inhalation | Long term exposure - systemic effects |  | 75 mg/m3  |  |
| n-Hexane<br>110-54-3 | General population | oral       | Long term exposure - systemic effects |  | 4 mg/kg   |  |

**Biological Exposure Indices:**

| Ingredient [Regulated substance] | Parameters   | Biological specimen | Sampling time                                    | Conc.    | Basis of biol. exposure index | Remark | Additional Information |
|----------------------------------|--|---------------------|--|----------|-------------------------------|--------|------------------------|
| n-Hexane<br>110-54-3             | Hexane-2,5-dione plus 4,5-Dihydroxy-2-hexanone                   | Urine               | Sampling time: End of shift.                     | 5 mg/l   | DE BAT                        |        |                        |
| n-Hexane<br>110-54-3             | Hexane-2,5-dione plus 4,5-Dihydroxy-2-hexanone (with hydrolysis) | Urine               | Sampling time: End of shift.                     | 5 mg/l   | DE BGW                        |        |                        |
| Cyclohexane<br>110-82-7          | Total 1,2-Cyclohexane diol                                       | Creatinine in urine | Sampling time: End of shift at end of work week. | 170 mg/g | DE BAT                        |        |                        |
| Cyclohexane<br>110-82-7          | 1,2-Cyclohexane diol, with hydrolysis                            | Creatinine in urine | Sampling time: End of shift at end of work week. | 150 mg/g | DE BGW                        |        |                        |

**8.2. Exposure controls:****Respiratory protection:**

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

**Hand protection:**

Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from chloroprene rubber are recommended according to EN 374.

Perforation time > 10 minutes

material thickness > 0.6 mm

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, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

**Eye protection:**

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

**Skin protection:**

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Advices to personal protection equipment:**

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

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

|   |   |
|---|---|
| Appearance  | pressurized can<br>liquid<br>colourless   |
| Odor  | of solvent                                |
| Odour threshold   | No data available / Not applicable        |
| pH  | No data available / Not applicable        |
| Initial boiling point<br>(1.013 hPa)                        | 60 °C (140 °F)                            |
| Flash point   | -30 °C (-22 °F); flash point, Abel-Pensky |
| Decomposition temperature                                   | No data available / Not applicable        |
| Vapour pressure   | No data available / Not applicable        |
| Density<br>(20 °C (68 °F))                                  | 0,7 - 0,74 g/cm <sup>3</sup>              |
| Bulk density  | No data available / Not applicable        |
| Viscosity   | No data available / Not applicable        |
| Viscosity (kinematic)                                       | No data available / Not applicable        |
| Explosive properties  | No data available / Not applicable        |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Not miscible                              |
| Solidification temperature                                  | No data available / Not applicable        |
| Melting point   | No data available / Not applicable        |
| Flammability  | No data available / Not applicable        |
| Auto-ignition temperature                                   | No data available / Not applicable        |
| Explosive limits  | No data available / Not applicable        |
| Partition coefficient: n-octanol/water                      | No data available / Not applicable        |
| Evaporation rate  | No data available / Not applicable        |
| Vapor density   | No data available / Not applicable        |
| Solid content   | 20,5 - 21,5 %                             |
| Oxidising properties  | No data available / Not applicable        |

**9.2. Other information**

|  |      |
|--|------|
| Flow cup viscosity<br>(23 °C (73.4 °F); ; Nozzle: 25 mm) | 25 s |
|--|------|

**SECTION 10: Stability and reactivity****10.1. Reactivity**

None if used for intended purpose.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

Temperatures over appr. 50 °C

**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### STOT-single exposure:

May cause drowsiness or dizziness.

#### Inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation.

In the event of protracted or repeated exposure, damage to health cannot be excluded.

#### Skin irritation:

Causes skin irritation.

#### Eye irritation:

Causes serious eye irritation.

#### Acute oral toxicity:

| Hazardous components<br>CAS-No.  | Value<br>type | Value         | Route of<br>application | Exposure<br>time | Species | Method                                      |
|--|---------------|---------------|-------------------------|------------------|---------|---|
| Methyl acetate<br>79-20-9  | LD50          | 6.970 mg/kg   | oral                    |                  | rat     | not specified                               |
| Hydrocarbons, C6-C7,<br>isoalkanes, cyclics, <5%<br>n-hexane<br>92128-66-0             | LD50          | > 5.000 mg/kg | oral                    |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity) |
| Ethyl acetate<br>141-78-6  | LD50          | 6.100 mg/kg   | oral                    |                  | rat     | not specified                               |
| Hydrocarbons, C6-C7, n-<br>alkanes, isoalkanes,<br>cyclics, <5% n-hexane<br>92128-66-0 | LD50          | > 5.000 mg/kg | oral                    |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity) |
| Hydrocarbons, C7, n-<br>alkanes, isoalkanes,<br>cyclics<br>93924-37-9                  | LD50          | > 5.840 mg/kg | oral                    |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity) |
| Cyclohexane<br>110-82-7  | LD50          | > 5.000 mg/kg | oral                    |                  | rat     | not specified                               |
| Butyl hydroxytoluene<br>128-37-0   | LD50          | > 5.000 mg/kg | oral                    |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity) |
| n-Hexane<br>110-54-3   | LD50          | 16.000 mg/kg  | oral                    |                  | rat     | OECD Guideline 401 (Acute<br>Oral Toxicity) |

#### Acute inhalative toxicity:

| Hazardous components<br>CAS-No.                                       | Value<br>type | Value        | Route of<br>application | Exposure<br>time | Species | Method  |
|---|---------------|--------------|-------------------------|------------------|---------|---|
| Isobutane<br>75-28-5  | LC50          | 260200 ppm   | gas                     | 4 h              | mouse   | not specified                                     |
| Propane<br>74-98-6  | LC50          | > 800000 ppm | gas                     | 15 min           | rat     | not specified                                     |
| Ethyl acetate<br>141-78-6   | LC50          | 200 mg/l     |                         | 1 h              | rat     | not specified                                     |
| Hydrocarbons, C7, n-<br>alkanes, isoalkanes,<br>cyclics<br>93924-37-9 | LC50          | > 23,3 mg/l  | vapour                  | 4 h              | rat     | OECD Guideline 403 (Acute<br>Inhalation Toxicity) |
| Cyclohexane<br>110-82-7   | LC50          | 13,9 mg/l    |                         | 4 h              | rat     | not specified                                     |
| n-Hexane<br>110-54-3  | LC50          |              | vapour                  | 24 h             | rat     | OECD Guideline 403 (Acute<br>Inhalation Toxicity) |

**Acute dermal toxicity:**

| Hazardous components CAS-No.  | Value type | Value          | Route of application | Exposure time | Species | Method                                     |
|---|------------|----------------|----------------------|---------------|---------|--|
| Methyl acetate<br>79-20-9   | LD50       | > 2.000 mg/kg  | dermal               |               | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | LD50       | > 2.000 mg/kg  | dermal               |               | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity) |
| Ethyl acetate<br>141-78-6   | LD50       | > 20.000 mg/kg | dermal               |               | rabbit  | Draize Test                                |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | LD50       | > 2.000 mg/kg  | dermal               |               | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>93924-37-9                  | LD50       | > 2.920 mg/kg  | dermal               |               | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| Cyclohexane<br>110-82-7   | LD50       | > 2.000 mg/kg  | dermal               |               | rabbit  | not specified                              |
| Butyl hydroxytoluene<br>128-37-0  | LD50       | > 2.000 mg/kg  | dermal               |               | rat     | OECD Guideline 402 (Acute Dermal Toxicity) |
| n-Hexane<br>110-54-3  | LD50       | > 2.000 mg/kg  | dermal               |               | rabbit  | not specified                              |

**Skin corrosion/irritation:**

| Hazardous components CAS-No.     | Result              | Exposure time | Species | Method   |
|----------------------------------|---------------------|---------------|---------|--|
| Methyl acetate<br>79-20-9        | not irritating      | 4 h           | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Ethyl acetate<br>141-78-6        | slightly irritating | 24 h          | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Butyl hydroxytoluene<br>128-37-0 | slightly irritating | 24 h          | rabbit  | not specified  |

**Serious eye damage/irritation:**

| Hazardous components CAS-No.     | Result              | Exposure time | Species | Method  |
|----------------------------------|---------------------|---------------|---------|---|
| Methyl acetate<br>79-20-9        | irritating          |               | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Ethyl acetate<br>141-78-6        | slightly irritating |               | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Cyclohexane<br>110-82-7          | slightly irritating |               | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Butyl hydroxytoluene<br>128-37-0 | slightly irritating |               | rabbit  | Draize Test   |
| n-Hexane<br>110-54-3             | not irritating      |               | rabbit  | not specified   |

**Respiratory or skin sensitization:**

| Hazardous components CAS-No.     | Result          | Test type                           | Species    | Method  |
|----------------------------------|-----------------|-------------------------------------|------------|---|
| Ethyl acetate<br>141-78-6        | not sensitising | Guinea pig maximisation test        | guinea pig | OECD Guideline 406 (Skin Sensitisation)                         |
| Butyl hydroxytoluene<br>128-37-0 | not sensitising | Draize Test                         | guinea pig | Draize Test   |
| n-Hexane<br>110-54-3             | not sensitising | Mouse local lymph node assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

**Germ cell mutagenicity:**

| Hazardous components<br>CAS-No.  | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species                    | Method   |
|----------------------------------|----------|--|--|----------------------------|--|
| Methyl acetate<br>79-20-9        | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Isobutane<br>75-28-5             | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
|                                  | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |                            | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Isobutane<br>75-28-5             | negative |  |  | Drosophila<br>melanogaster | not specified  |
| Propane<br>74-98-6               | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
|                                  | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |                            | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Propane<br>74-98-6               | negative |  |  | Drosophila<br>melanogaster | not specified  |
| Ethyl acetate<br>141-78-6        | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
|                                  | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |                            | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Ethyl acetate<br>141-78-6        | negative | oral: gavage   |  | hamster,<br>Chinese        | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)       |
| Cyclohexane<br>110-82-7          | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |                            | not specified  |
| Butyl hydroxytoluene<br>128-37-0 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |                            | not specified  |
|                                  | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |                            | not specified  |
|                                  | negative | mammalian cell<br>gene mutation assay                  | with and without                           |                            | not specified  |
| Butyl hydroxytoluene<br>128-37-0 | negative | oral: feed   |  | rat                        | not specified  |
| n-Hexane<br>110-54-3             | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
|                                  | negative | mammalian cell<br>gene mutation assay                  | with and without                           |                            | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| n-Hexane<br>110-54-3             | negative | inhalation: vapour                                     |  | mouse                      | not specified  |
|                                  | negative | inhalation: vapour                                     |  | rat                        | not specified  |

**Carcinogenicity:**

| Hazardous components<br>CAS-No.  | Result | Species | Sex    | Exposure<br>time<br>Frequency<br>of treatment | Route of<br>application | Method  |
|----------------------------------|--------|---------|--------|---|-------------------------|---|
| Butyl hydroxytoluene<br>128-37-0 |        | rat     | male   | 2 y<br>daily                                  | oral: feed              |   |
| n-Hexane<br>110-54-3             |        | mouse   | female | 2 y<br>6 h/d; 5 d/w                           | inhalation:<br>vapour   | OECD Guideline 451<br>(Carcinogenicity Studies) |

**Reproductive toxicity:**

| Hazardous substances<br>CAS-No.  | Result / Classification  | Species   | Exposure<br>time | Species | Method   |
|----------------------------------|--|---|------------------|---------|--|
| Ethyl acetate<br>141-78-6        | NOAEL P = 1.500 mg/kg  | other<br>inhalation:<br>vapour                      | 94 d             | rat     | other guideline:   |
| Butyl hydroxytoluene<br>128-37-0 | NOAEL P = 500 mg/kg  | Two<br>generation<br>study<br>oral: feed            |                  | rat     | not specified  |
| n-Hexane<br>110-54-3             | NOAEL P = 9000 ppm<br>NOAEL F1 = 3000 ppm<br>NOAEL F2 = 3000 ppm | Two<br>generation<br>study<br>inhalation:<br>vapour | 10 w             | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study) |

**Repeated dose toxicity**

| Hazardous components<br>CAS-No.  | Result             | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method   |
|----------------------------------|--------------------|-------------------------|--|---------|--|
| Isobutane<br>75-28-5             |                    | inhalation:<br>gas      | 28 d   | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction / Developmental<br>Toxicity Screening Test) |
| Propane<br>74-98-6               |                    | inhalation:<br>gas      | 28 d   | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction / Developmental<br>Toxicity Screening Test) |
| Ethyl acetate<br>141-78-6        | NOAEL=900<br>mg/kg | oral: gavage            | 90 ddaily                                    | rat     | EPA OTS 795.2600<br>(Subchronic Oral Toxicity<br>Test)   |
| Ethyl acetate<br>141-78-6        | NOAEL=1,28 mg/l    | inhalation              | 94 dcontinuous                               | rat     | EPA OTS 798.2450 (90-Day<br>Inhalation Toxicity)   |
| Butyl hydroxytoluene<br>128-37-0 | NOAEL=25 mg/kg     | oral: feed              | daily  | rat     | not specified  |
| n-Hexane<br>110-54-3             | NOAEL=586<br>mg/kg | oral: gavage            | 90 d5 d/w                                    | rat     | not specified  |
| n-Hexane<br>110-54-3             | NOAEL=500 ppm      | inhalation:<br>vapour   | 90 d6 h/d; 5 d/w                             | mouse   | OECD Guideline 413<br>(Subchronic Inhalation<br>Toxicity: 90-Day)  |

**SECTION 12: Ecological information****General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Do not empty into drains, soil or bodies of water.

**12.1. Toxicity****Ecotoxicity:**

Harmful to aquatic life with long lasting effects.

| Hazardous components<br>CAS-No.  | Value<br>type | Value          | Acute<br>Toxicity<br>Study | Exposure<br>time | Species  | Method   |
|--|---------------|----------------|----------------------------|------------------|--|--|
| Methyl acetate<br>79-20-9  | LC50          | 250 - 350 mg/l | Fish                       | 96 h             | Brachydanio rerio (new name:<br>Danio rerio)                               | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                     |
| Methyl acetate<br>79-20-9  | EC50          | 1.026,7 mg/l   | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)   |
| Methyl acetate<br>79-20-9  | EC50          | > 120 mg/l     | Algae                      | 72 h             | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)          | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                  |
|  | NOEC          | > 120 mg/l     | Algae                      | 72 h             | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)          | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)<br>not specified |
| Methyl acetate<br>79-20-9  | EC10          | 1.830 mg/l     | Bacteria                   | 16 h             |  |  |
| Isobutane<br>75-28-5   | EC50          | 7,71 mg/l      | Algae                      | 96 h             |  | not specified  |
| Hydrocarbons, C6-C7,<br>isoalkanes, cyclics, <5% n-<br>hexane<br>92128-66-0            | LL50          | 12 mg/l        | Fish                       | 96 h             | Oncorhynchus mykiss  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                     |
| Hydrocarbons, C6-C7,<br>isoalkanes, cyclics, <5% n-<br>hexane<br>92128-66-0            | EL50          | 3 mg/l         | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)   |
| Hydrocarbons, C6-C7,<br>isoalkanes, cyclics, <5% n-<br>hexane<br>92128-66-0            | EL50          | 55 mg/l        | Algae                      | 72 h             | Pseudokirchnerella subcapitata   | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                  |
|  | NOEL          | 30 mg/l        | Algae                      | 72 h             | Pseudokirchnerella subcapitata   | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)<br>DIN 38412-15  |
| Ethyl acetate<br>141-78-6  | LC50          | 270 mg/l       | Fish                       | 48 h             | Leuciscus idus melanotus   |  |
| Ethyl acetate<br>141-78-6  | EC50          | 164 mg/l       | Daphnia                    | 48 h             | Daphnia cucullata  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)   |
| Ethyl acetate<br>141-78-6  | EC50          | > 2.000 mg/l   | Algae                      | 96 h             | Selenastrum capricornutum<br>(new name: Pseudokirchnerella<br>subcapitata) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                  |
|  | NOEC          | 2.000 mg/l     | Algae                      | 96 h             | Selenastrum capricornutum<br>(new name: Pseudokirchnerella<br>subcapitata) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)<br>not specified |
| Ethyl acetate<br>141-78-6  | EC10          | 2.900 mg/l     | Bacteria                   | 18 h             |  |  |
| Ethyl acetate<br>141-78-6  | NOEC          | 2,4 mg/l       | chronic<br>Daphnia         | 21 d             | Daphnia magna  | OECD 211<br>(Daphnia magna,<br>Reproduction Test)                        |
| Hydrocarbons, C6-C7, n-<br>alkanes, isoalkanes, cyclics,<br><5% n-hexane<br>92128-66-0 | EC50          | 3 mg/l         | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)   |
| Hydrocarbons, C6-C7, n-<br>alkanes, isoalkanes, cyclics,<br><5% n-hexane<br>92128-66-0 | NOEC          | 0,17 mg/l      | chronic<br>Daphnia         | 21 d             | Daphnia magna  | OECD 211<br>(Daphnia magna,<br>Reproduction Test)                        |
| Hydrocarbons, C7, n-alkanes,<br>isoalkanes, cyclics<br>93924-37-9                      | EC50          | 3 mg/l         | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)   |
| Hydrocarbons, C7, n-alkanes,<br>isoalkanes, cyclics<br>93924-37-9                      | NOEC          | 0,17 mg/l      | chronic<br>Daphnia         | 21 d             | Daphnia magna  | OECD 211<br>(Daphnia magna,<br>Reproduction Test)                        |
| Naphtha, hydrotreated light,<br><0,1% benzene<br>64742-49-0                            | LC50          | > 1 - 10 mg/l  | Fish                       |                  |  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                     |
| Naphtha, hydrotreated light,<br><0,1% benzene<br>64742-49-0                            | EC50          | 3 mg/l         | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute                              |



|   |       |               |                    |      |  |  |
|---|-------|---------------|--------------------|------|--|--|
| Naphtha, hydrotreated light,<br><0,1% benzene<br>64742-49-0 | EC50  | > 1 - 10 mg/l | Algae              |      |  | Immobilisation<br>Test)<br>OECD Guideline<br>201 (Alga. Growth<br>Inhibition Test) |
| Cyclohexane<br>110-82-7                                     | LC50  | 4,53 mg/l     | Fish               | 96 h | Pimephales promelas  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                               |
| Cyclohexane<br>110-82-7                                     | EC50  | 0,9 mg/l      | Daphnia            | 48 h | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)             |
| Cyclohexane<br>110-82-7                                     | EC50  | 9,317 mg/l    | Algae              | 72 h | Selenastrum capricornutum<br>(new name: Pseudokirchnerella<br>subcapitata) | OECD Guideline<br>201 (Alga. Growth<br>Inhibition Test)                            |
|   | NOEC  | 0,94 mg/l     | Algae              | 72 h | Selenastrum capricornutum<br>(new name: Pseudokirchnerella<br>subcapitata) | OECD Guideline<br>201 (Alga. Growth<br>Inhibition Test)                            |
| Cyclohexane<br>110-82-7                                     | IC50  | 29 mg/l       | Bacteria           | 15 h | other:   | not specified  |
| Butyl hydroxytoluene<br>128-37-0                            | NOEC  | 0,053 mg/l    | Fish               | 42 d | Oryzias latipes  | OECD Guideline<br>210 (fish early lite<br>stage toxicity test)                     |
| Butyl hydroxytoluene<br>128-37-0                            | EC50  | 0,48 mg/l     | Daphnia            | 48 h | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)             |
| Butyl hydroxytoluene<br>128-37-0                            | EC10  | 0,4 mg/l      | Algae              | 72 h | Desmodesmus subspicatus<br>(reported as Scenedesmus<br>subspicatus)        | EU Method C.3<br>(Algal Inhibition<br>test)  |
| Butyl hydroxytoluene<br>128-37-0                            | NOEC  | 0,023 mg/l    | chronic<br>Daphnia | 21 d | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Chronic<br>Immobilisation<br>Test)           |
| n-Hexane<br>110-54-3  | LC50  | > 1 - 10 mg/l | Fish               |      |  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                               |
| n-Hexane<br>110-54-3  | EC50  | 2,1 mg/l      | Daphnia            | 48 h | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test)             |
| n-Hexane<br>110-54-3  | EC50  | > 1 - 10 mg/l | Algae              |      |  | OECD Guideline<br>201 (Alga. Growth<br>Inhibition Test)                            |
| n-Hexane<br>110-54-3  | EC 50 | > 1 - 10 mg/l | Bacteria           |      |  | OECD Guideline<br>209 (Activated<br>Sludge, Respiration<br>Inhibition Test)        |

## 12.2. Persistence and degradability

| Hazardous components<br>CAS-No. | Result | Route of<br>application | Degradability | Method |
|---------------------------------|--------|-------------------------|---------------|--------|
|---------------------------------|--------|-------------------------|---------------|--------|

|   |  |         |             |   |
|---|--|---------|-------------|---|
| Methyl acetate<br>79-20-9   |  | aerobic | > 95 %      | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)    |
|   | readily biodegradable                            | aerobic | > 70 %      | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)           |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | readily biodegradable                            | aerobic | 98 %        | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Ethyl acetate<br>141-78-6   | readily biodegradable                            | aerobic | 100 %       | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)           |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | readily biodegradable                            | aerobic | 98 %        | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>93924-37-9                  | readily biodegradable                            | aerobic | 98 %        | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0                        | readily biodegradable                            | aerobic | 89 %        | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Cyclohexane<br>110-82-7   | readily biodegradable                            | aerobic | 77 %        | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Butyl hydroxytoluene<br>128-37-0  | Not readily biodegradable.                       | aerobic | 4,5 %       | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))       |
|   | not inherently biodegradable                     | aerobic | 5,2 - 5,6 % | OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))   |
| n-Hexane<br>110-54-3  | readily biodegradable, but failing 10-day window | aerobic | > 60 %      | not specified   |

**12.3. Bioaccumulative potential / 12.4. Mobility in soil**

| Hazardous components<br>CAS-No.                                      | LogPow  | Bioconcentration factor (BCF) | Exposure time | Species             | Temperature | Method  |
|--|---------|-------------------------------|---------------|---------------------|-------------|---|
| Methyl acetate<br>79-20-9  | 0,18    |                               |               |                     |             | not specified   |
| Isobutane<br>75-28-5   | 2,88    |                               |               |                     | 20 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)      |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | 3,6     |                               |               |                     | 20 °C       | other guideline:  |
| Ethyl acetate<br>141-78-6  | 0,6     |                               |               |                     |             | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)      |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0             | 4 - 5,7 |                               |               |                     |             | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)      |
| Cyclohexane<br>110-82-7  |         | 167                           |               | Pimephales promelas |             | QSAR (Quantitative Structure Activity Relationship)                                     |
| Cyclohexane<br>110-82-7  | 3,44    |                               |               |                     | 25 °C       | QSAR (Quantitative Structure Activity Relationship)                                     |
| Butyl hydroxytoluene<br>128-37-0                                     |         | 330 - 1.800                   | 56 d          | Cyprinus carpio     |             | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |
| Butyl hydroxytoluene<br>128-37-0                                     | 5,1     |                               |               |                     |             | other guideline:  |
| n-Hexane<br>110-54-3   | 4       |                               |               |                     |             | not specified   |

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

| <b>Hazardous components<br/>CAS-No.</b>   | <b>PBT/vPvB</b>   |
|---|---|
| Isobutane<br>75-28-5  | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propane<br>74-98-6  | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0            | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Ethyl acetate<br>141-78-6   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane<br>92128-66-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics<br>93924-37-9                  | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Naphtha, hydrotreated light, <0,1% benzene<br>64742-49-0                        | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Cyclohexane<br>110-82-7   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Butyl hydroxytoluene<br>128-37-0  | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| n-Hexane<br>110-54-3  | 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:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

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

|      |      |
|------|------|
| ADR  | 1950 |
| RID  | 1950 |
| ADN  | 1950 |
| IMDG | 1950 |
| IATA | 1950 |

**14.2. UN proper shipping name**

|      |                     |
|------|---------------------|
| ADR  | AEROSOLS            |
| RID  | AEROSOLS            |
| ADN  | AEROSOLS            |
| IMDG | AEROSOLS            |
| IATA | Aerosols, flammable |

**14.3. Transport hazard class(es)**

|      |     |
|------|-----|
| ADR  | 2.1 |
| RID  | 2.1 |
| ADN  | 2.1 |
| IMDG | 2.1 |
| IATA | 2.1 |

**14.4. Packing group**

ADR  
RID  
ADN  
IMDG  
IATA

**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<br>Tunnelcode: (D) |
| 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**

VOC content 79,42 %  
(VOCV 814.018 VOC regulation  
CH)

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### National regulations/information (Germany):

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

BG regulations, rules, infos: BG data sheet: BGI 621 Solvents  
BG regulation: BGV B 1 Handling hazardous substances

Storage class according to TRGS 510: 2B

## 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:

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H361f Suspected of damaging fertility.  
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 based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**