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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 27.04.2018 / 0007  
 Replacing version dated / version: 05.09.2017 / 0006  
 Valid from: 27.04.2018  
 PDF print date: 02.05.2018  
 WD-40® Specialist® High Performance PTFE Lubricant

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

#### **WD-40® Specialist® High Performance PTFE Lubricant**

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

##### Relevant identified uses of the substance or mixture:

Lubricant

##### Uses advised against:

No information available at present.

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

WD-40 Company Limited, PO Box 440, Kiln Farm, Milton Keynes, MK11 3LF, United Kingdom  
 Phone:+44 (0) 1908 555400, Fax:+44 (0) 1908 266900  
 Compliance@wd40.co.uk, www.wd40.co.uk

(IRL)

P.R. Rielly Limited KarKraft House, Kilbarrack Industrial Estate, Kilbarrack, Dublin 5, Ireland  
 Phone:01-832 0006, Fax:01-832 0016  
 web@team.ie

בית מסחר השחל בע"מ . הרב ג'רופי שלום , ראשון לציון  
 טל: 03-7612700

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

##### Emergency information services / official advisory body:

(IRL)

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:  
 +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)  
 +353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

##### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WDC)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class    | Hazard category | Hazard statement                                      |
|-----------------|-----------------|---|
| Skin Irrit.     | 2               | H315-Causes skin irritation.                          |
| STOT SE         | 3               | H336-May cause drowsiness or dizziness.               |
| Aquatic Chronic | 2               | H411-Toxic to aquatic life with long lasting effects. |
| Aerosol         | 1               | H222-Extremely flammable aerosol.                     |
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.    |
| Aerosol         | 1               | H229-Pressurised container: May burst if heated.      |

#### 2.2 Label elements

##### Labeling according to Regulation (EC) 1272/2008 (CLP)

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Danger

H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

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

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. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container safely.

EUH208-Contains Mixture of benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Distillates (petroleum), hydrotreated light

Hydrocarbons, C7-C9, isoalkanes

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

## SECTION 3: Composition/information on ingredients

Aerosol

### 3.1 Substance

n.a.

### 3.2 Mixture

|  |  |
|--|--|
| <b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</b>            |  |
| <b>Registration number (REACH)</b>                                 | 01-2119475515-33-XXXX  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP</b>   | 927-510-4 (REACH-IT List-No.)  |
| <b>CAS</b>   | ---  |
| <b>content %</b>   | 25-40  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Aquatic Chronic 2, H411 |

|   |                               |
|---|-------------------------------|
| <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> |                               |
| <b>Registration number (REACH)</b>  | 01-2119463258-33-XXXX         |
| <b>Index</b>  | ---                           |
| <b>EINECS, ELINCS, NLP</b>  | 919-857-5 (REACH-IT List-No.) |
| <b>CAS</b>  | ---                           |
| <b>content %</b>  | 20-30                         |

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|  |  |
|--|--|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>             | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336   |
| <b>Hydrocarbons, C7-C9, isoalkanes</b>   |  |
| <b>Registration number (REACH)</b>   | 01-2119471305-42-XXXX  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP</b>   | 921-728-3 (REACH-IT List-No.)  |
| <b>CAS</b>   | ---  |
| <b>content %</b>   | 1-5  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>             | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Aquatic Chronic 2, H411 |
| <b>Mixture of benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b> | <b>Substance with specific conc. limit(s) acc. to REACH-registration</b>                                     |
| <b>Registration number (REACH)</b>   | 01-2119978241-36-XXXX  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP</b>   | 939-603-7 (REACH-IT List-No.)  |
| <b>CAS</b>   | ---  |
| <b>content %</b>   | 0,1-<1   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>             | Skin Sens. 1B, H317  |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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

Irritation of the eyes

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

Unconsciousness

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With long-term contact:

Drying of the skin.

Dermatitis (skin inflammation)

Ingestion:

Nausea

Vomiting

Danger of aspiration

Oedema of the lungs

chemical pneumonitis (condition similar to pneumonia)

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

Pulmonary oedema prophylaxis

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

CO<sub>2</sub>

Extinction powder

Water jet spray

Alcohol resistant foam

#### **Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Hydrofluoric acid

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

### **5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

## **SECTION 6: Accidental release measures**

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

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

### **6.2 Environmental precautions**

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

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

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible.

Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

### **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

**7.1 Precautions for safe handling**

**7.1.1 General recommendations**

- Ensure good ventilation.
- Avoid inhalation of the vapours.
- Avoid contact with eyes or skin.
- Keep away from sources of ignition - Do not smoke.
- Take measures against electrostatic charging, if appropriate.
- Do not use on hot surfaces.
- Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
- Observe directions on label and instructions for use.
- Use working methods according to operating instructions.

**7.1.2 Notes on general hygiene measures at the workplace**

- General hygiene measures for the handling of chemicals are applicable.
- Wash hands before breaks and at end of work.
- Keep away from food, drink and animal feedingstuffs.
- Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

- Keep out of access to unauthorised individuals.
- Not to be stored in gangways or stair wells.
- Store product closed and only in original packing.
- Do not store with flammable or self-igniting materials.
- Observe special regulations for aerosols!
- Observe special storage conditions.
- Keep protected from direct sunlight and temperatures over 50°C.
- Store in a well ventilated place.
- Store cool.

**7.3 Specific end use(s)**

No information available at present.

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

**8.1 Control parameters**

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):  
 800 mg/m3

|                        |  |                 |
|------------------------|--|-----------------|
| <b>Chemical Name</b>   | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics   | Content %:25-40 |
| WEL-TWA: 800 mg/m3     | WEL-STEL: ---  | ---             |
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |                 |
| BMGV: ---              | Other information: (WEL acc. to RCP-method, EH40)  |                 |

|                           |  |                 |
|---------------------------|--|-----------------|
| <b>Chemical Name</b>      | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics   | Content %:25-40 |
| OELV-8h: 1200 mg/m3 (AGW) | OELV-15min: 2(II) (AGW)  | ---             |
| Monitoring procedures:    | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |                 |
| BLV: ---                  | Other information: ---   |                 |

|                        |  |                 |
|------------------------|--|-----------------|
| <b>Chemical Name</b>   | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics  | Content %:20-30 |
| WEL-TWA: 800 mg/m3     | WEL-STEL: ---  | ---             |
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |                 |
| BMGV: ---              | Other information: (WEL acc. to RCP-method, EH40)  |                 |

|  |   |                 |
|--|---|-----------------|
| <b>Chemical Name</b>                         | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | Content %:20-30 |
| OELV-8h: 100 ppm (573 mg/m3) (White Spirit ) | OELV-15min: 125 ppm (720 mg/m3) (White Spirit )                     | ---             |

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|                        |  |
|------------------------|--|
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |
|------------------------|--|

|          |                        |
|----------|------------------------|
| BLV: --- | Other information: --- |
|----------|------------------------|

| (GB) Chemical Name | Distillates (petroleum), hydrotreated light | Content %:1-<br><10 |
|--------------------|---|---------------------|
|--------------------|---|---------------------|

|   |               |     |
|---|---------------|-----|
| WEL-TWA: 1200 mg/m3 (>= C7 normal and branched chain alkanes) | WEL-STEL: --- | --- |
|---|---------------|-----|

|                        |  |
|------------------------|--|
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |
|------------------------|--|

|           |                        |
|-----------|------------------------|
| BMGV: --- | Other information: --- |
|-----------|------------------------|

| (IRL) Chemical Name | Distillates (petroleum), hydrotreated light | Content %:1-<br><10 |
|---------------------|---|---------------------|
|---------------------|---|---------------------|

|                          |                         |     |
|--------------------------|-------------------------|-----|
| OELV-8h: 600 mg/m3 (AGW) | OELV-15min: 2(II) (AGW) | --- |
|--------------------------|-------------------------|-----|

|                        |  |
|------------------------|--|
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |
|------------------------|--|

|          |                        |
|----------|------------------------|
| BLV: --- | Other information: --- |
|----------|------------------------|

| (GB) Chemical Name | Hydrocarbons, C7-C9, isoalkanes | Content %:1-5 |
|--------------------|---------------------------------|---------------|
|--------------------|---------------------------------|---------------|

|                     |               |     |
|---------------------|---------------|-----|
| WEL-TWA: 1200 mg/m3 | WEL-STEL: --- | --- |
|---------------------|---------------|-----|

|                        |  |
|------------------------|--|
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |
|------------------------|--|

|           |   |
|-----------|---|
| BMGV: --- | Other information: (WEL acc. to RCP-method, EH40) |
|-----------|---|

| (IRL) Chemical Name | Hydrocarbons, C7-C9, isoalkanes | Content %:1-5 |
|---------------------|---------------------------------|---------------|
|---------------------|---------------------------------|---------------|

|   |                 |     |
|---|-----------------|-----|
| OELV-8h: 100 ppm (573 mg/m3) (White Spirit) | OELV-15min: --- | --- |
|---|-----------------|-----|

|                        |  |
|------------------------|--|
| Monitoring procedures: | - Draeger - Hydrocarbons 2/a (81 03 581)<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Compur - KITA-187 S (551 174) |
|------------------------|--|

|          |                        |
|----------|------------------------|
| BLV: --- | Other information: --- |
|----------|------------------------|

| (GB) Chemical Name | Oil mist, mineral | Content %: |
|--------------------|-------------------|------------|
|--------------------|-------------------|------------|

|                          |                            |     |
|--------------------------|----------------------------|-----|
| WEL-TWA: 5 mg/m3 (ACGIH) | WEL-STEL: 10 mg/m3 (ACGIH) | --- |
|--------------------------|----------------------------|-----|

|                        |  |
|------------------------|--|
| Monitoring procedures: | - Draeger - Oil 10/a-P (67 28 371)<br>- Draeger - Oil Mist 1/a (67 33 031) |
|------------------------|--|

|           |                        |
|-----------|------------------------|
| BMGV: --- | Other information: --- |
|-----------|------------------------|

| (IRL) Chemical Name | Oil mist, mineral | Content %: |
|---------------------|-------------------|------------|
|---------------------|-------------------|------------|

|   |                 |     |
|---|-----------------|-----|
| OELV-8h: 5 mg/m3 (Mineral oil, pure, highly & severely refined (inhalable)) | OELV-15min: --- | --- |
|---|-----------------|-----|

|                        |  |
|------------------------|--|
| Monitoring procedures: | - Draeger - Oil 10/a-P (67 28 371)<br>- Draeger - Oil Mist 1/a (67 33 031) |
|------------------------|--|

|          |                        |
|----------|------------------------|
| BLV: --- | Other information: --- |
|----------|------------------------|

| (GB) Chemical Name | Petroleum gases, liquified | Content %: |
|--------------------|----------------------------|------------|
|--------------------|----------------------------|------------|

|  |   |     |
|--|---|-----|
| WEL-TWA: 1000 ppm (1750 mg/m3) (Liquefied petroleum gas (LPG)) | WEL-STEL: 1250 ppm (2180 mg/m3) (Liquefied petroleum gas (LPG)) | --- |
|--|---|-----|

|                        |     |
|------------------------|-----|
| Monitoring procedures: | --- |
|------------------------|-----|

|           |                        |
|-----------|------------------------|
| BMGV: --- | Other information: --- |
|-----------|------------------------|

| (IRL) Chemical Name | Petroleum gases, liquified | Content %: |
|---------------------|----------------------------|------------|
|---------------------|----------------------------|------------|

|                                |                                   |     |
|--------------------------------|-----------------------------------|-----|
| OELV-8h: 1000 ppm (1800 mg/m3) | OELV-15min: 1250 ppm (2250 mg/m3) | --- |
|--------------------------------|-----------------------------------|-----|

|                        |     |
|------------------------|-----|
| Monitoring procedures: | --- |
|------------------------|-----|

|          |                        |
|----------|------------------------|
| BLV: --- | Other information: --- |
|----------|------------------------|

(GB) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BLV = Biological limit value | Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

## 8.2 Exposure controls

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |  |                             |            |       |            |      |
|--|--|-----------------------------|------------|-------|------------|------|
| Area of application                              | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit       | Note |
| Consumer   | Human - dermal                             | Long term, systemic effects | DNEL       | 149   | mg/kg bw/d |      |
| Consumer   | Human - inhalation                         | Long term, systemic effects | DNEL       | 447   | mg/m3      |      |
| Consumer   | Human - oral                               | Long term, systemic effects | DNEL       | 149   | mg/kg bw/d |      |
| Workers / employees                              | Human - dermal                             | Long term, systemic effects | DNEL       | 300   | mg/kg bw/d |      |
| Workers / employees                              | Human - inhalation                         | Long term, systemic effects | DNEL       | 2085  | mg/m3      |      |

| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics |  |                             |            |       |              |      |
|---|--|-----------------------------|------------|-------|--------------|------|
| Area of application   | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit         | Note |
| Consumer  | Human - oral                               | Long term, systemic effects | DNEL       | 300   | mg/kg bw/day |      |
| Consumer  | Human - dermal                             | Long term, systemic effects | DNEL       | 300   | mg/kg bw/day |      |
| Consumer  | Human - inhalation                         | Long term, systemic effects | DNEL       | 900   | mg/m3        |      |
| Consumer  | Human - dermal                             | Long term, systemic effects | DNEL       | 125   | mg/kg bw/day |      |
| Consumer  | Human - inhalation                         | Long term, systemic effects | DNEL       | 185   | mg/m3        |      |
| Consumer  | Human - oral                               | Long term, systemic effects | DNEL       | 125   | mg/kg bw/day |      |
| Workers / employees   | Human - dermal                             | Long term, systemic effects | DNEL       | 300   | mg/kg bw/day |      |
| Workers / employees   | Human - inhalation                         | Long term, systemic effects | DNEL       | 1500  | mg/m3        |      |
| Workers / employees   | Human - dermal                             | Long term, systemic effects | DNEL       | 208   | mg/kg bw/day |      |
| Workers / employees   | Human - inhalation                         | Long term, systemic effects | DNEL       | 871   | mg/m3        |      |

| Hydrocarbons, C7-C9, isoalkanes |  |                             |            |       |              |      |
|---------------------------------|--|-----------------------------|------------|-------|--------------|------|
| Area of application             | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit         | Note |
| Consumer                        | Human - oral                               | Long term, systemic effects | DNEL       | 699   | mg/kg bw/day |      |
| Consumer                        | Human - dermal                             | Long term, systemic effects | DNEL       | 699   | mg/kg bw/day |      |
| Consumer                        | Human - inhalation                         | Long term, systemic effects | DNEL       | 608   | mg/m3        |      |
| Workers / employees             | Human - dermal                             | Long term, systemic effects | DNEL       | 773   | mg/kg bw/day |      |

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|                     |                    |                             |      |      |       |  |
|---------------------|--------------------|-----------------------------|------|------|-------|--|
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 2035 | mg/m3 |  |
|---------------------|--------------------|-----------------------------|------|------|-------|--|

| Mixture of benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts |  |                             |            |       |                       |      |
|---|--|-----------------------------|------------|-------|-----------------------|------|
| Area of application   | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value | Unit                  | Note |
|   | Environment - freshwater                             |                             | PNEC       | 0,1   | mg/l                  |      |
|   | Environment - marine                                 |                             | PNEC       | 0,1   | mg/l                  |      |
|   | Environment - sediment, freshwater                   |                             | PNEC       | 45211 | mg/kg                 |      |
|   | Environment - sediment, marine                       |                             | PNEC       | 45211 | mg/kg                 |      |
|   | Environment - water, sporadic (intermittent) release |                             | PNEC       | 1     | mg/l                  |      |
|   | Environment - sewage treatment plant                 |                             | PNEC       | 1000  | mg/l                  |      |
|   | Environment - soil                                   |                             | PNEC       | 47025 | mg/kg                 |      |
| Consumer  | Human - inhalation                                   | Long term, systemic effects | DNEL       | 8,7   | mg/m3                 |      |
| Consumer  | Human - dermal                                       | Long term, systemic effects | DNEL       | 12,5  | mg/kg body weight/day |      |
| Consumer  | Human - oral   | Long term, systemic effects | DNEL       | 2,5   | mg/kg body weight/day |      |
| Workers / employees   | Human - inhalation                                   | Long term, systemic effects | DNEL       | 35,26 | mg/m3                 |      |
| Workers / employees   | Human - dermal                                       | Long term, systemic effects | DNEL       | 25    | mg/kg body weight/day |      |
| Workers / employees   | Human - dermal                                       | Short term, local effects   | DNEL       | 1,04  | mg/cm2                |      |

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. BS EN 14042.  
 BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
 With danger of contact with eyes.  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Normally not necessary.  
 with long-term contact:  
 If applicable  
 Protective nitrile gloves (EN 374)  
 Minimum layer thickness in mm:  
 0,4  
 Permeation time (penetration time) in minutes:  
 >= 480  
 Protective Viton® / fluoroelastomer gloves (EN 374)



Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

>= 480

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state:                          | Aerosol. Active substance: liquid.  |
| Colour:                                  | Light brown   |
| Odour:                                   | Hydrocarbons  |
| Odour threshold:                         | Not determined  |
| pH-value:                                | n.a.  |
| Melting point/freezing point:            | Not determined  |
| Initial boiling point and boiling range: | n.a.  |
| Flash point:                             | n.a.  |
| Evaporation rate:                        | Not determined  |
| Flammability (solid, gas):               | Not determined  |
| Lower explosive limit:                   | 0,8 Vol-%   |
| Upper explosive limit:                   | 9 Vol-%   |
| Vapour pressure:                         | Not determined  |
| Vapour density (air = 1):                | Not determined  |
| Density:                                 | 0,706 g/ml  |
| Bulk density:                            | n.a.  |
| Solubility(ies):                         | Not determined  |
| Water solubility:                        | Insoluble   |
| Partition coefficient (n-octanol/water): | Not determined  |
| Auto-ignition temperature:               | Not determined  |
| Decomposition temperature:               | Not determined  |
| Viscosity:                               | Not determined  |
| Explosive properties:                    | Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture. |
| Oxidising properties:                    | No  |

### 9.2 Other information

|                           |                |
|---------------------------|----------------|
| Miscibility:              | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity:             | Not determined |
| Surface tension:          | Not determined |
| Solvents content:         | Not determined |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No decomposition if used as intended.

### 10.4 Conditions to avoid

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

| WD-40® Specialist® High Performance PTFE Lubricant            |          |       |      |          |             |        |
|---|----------|-------|------|----------|-------------|--------|
| Toxicity / effect   | Endpoint | Value | Unit | Organism | Test method | Notes  |
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a. |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a. |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a. |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a. |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a. |
| Carcinogenicity:  |          |       |      |          |             | n.d.a. |
| Reproductive toxicity:  |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a. |
| Aspiration hazard:  |          |       |      |          |             | n.d.a. |
| Symptoms:   |          |       |      |          |             | n.d.a. |

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics |          |       |         |            |   |                      |
|--|----------|-------|---------|------------|---|----------------------|
| Toxicity / effect                                | Endpoint | Value | Unit    | Organism   | Test method   | Notes                |
| Acute toxicity, by oral route:                   | LD50     | >5840 | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity)                        | Analogous conclusion |
| Acute toxicity, by dermal route:                 | LD50     | >2920 | mg/kg   | Rat        | OECD 402 (Acute Dermal Toxicity)                      | Analogous conclusion |
| Acute toxicity, by inhalation:                   | LC50     | >23,3 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)                  | Analogous conclusion |
| Skin corrosion/irritation:                       |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)          | Irritant             |
| Serious eye damage/irritation:                   |          |       |         | Rabbit     |   | Not irritant         |
| Respiratory or skin sensitisation:               |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                         | No (skin contact)    |
| Germ cell mutagenicity:                          |          |       |         |            | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative             |
| Carcinogenicity:                                 |          |       |         |            |   | Negative             |

|                        |       |      |     |     |   |   |
|------------------------|-------|------|-----|-----|---|---|
| Reproductive toxicity: | NOAEL | 9000 | ppm | Rat | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative  |
| Aspiration hazard:     |       |      |     |     |   | Yes   |
| Symptoms:              |       |      |     |     |   | diarrhoea, headaches, dizziness, nausea and vomiting.   |
| Symptoms:              |       |      |     |     |   | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., diarrhoea |

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

| Toxicity / effect   | Endpoint | Value | Unit    | Organism   | Test method  | Notes   |
|---|----------|-------|---------|------------|--|---|
| Acute toxicity, by oral route:                              | LD50     | >5000 | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity)                               |   |
| Acute toxicity, by dermal route:                            | LD50     | >5000 | mg/kg   | Rabbit     | OECD 402 (Acute Dermal Toxicity)                             |   |
| Acute toxicity, by dermal route:                            | LD50     | 4000  | mg/kg   | Rat        | OECD 402 (Acute Dermal Toxicity)                             |   |
| Acute toxicity, by inhalation:                              | LD50     | >18,5 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)                         |   |
| Skin corrosion/irritation:                                  |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)                 | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:                              |          |       |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                    | Not irritant  |
| Respiratory or skin sensitisation:                          |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                                | No (skin contact)   |
| Germ cell mutagenicity:                                     |          |       |         |            | OECD 471 (Bacterial Reverse Mutation Test)                   | Negative, Analogous conclusion                                      |
| Carcinogenicity:  |          |       |         |            | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative, Analogous conclusion                                      |
| Reproductive toxicity:                                      |          |       |         |            | OECD 414 (Prenatal Developmental Toxicity Study)             | Negative, Analogous conclusion                                      |
| Specific target organ toxicity - single exposure (STOT-SE): |          |       |         |            |  | May cause drowsiness or dizziness.                                  |
| Aspiration hazard:  |          |       |         |            |  | Yes   |

|   |  |  |  |  |  |   |
|---|--|--|--|--|--|---|
| Symptoms:   |  |  |  |  |  | unconsciousness, headaches, dizziness, discoloration of the skin, vomiting, diarrhoea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: |  |  |  |  | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Not to be expected  |

**Distillates (petroleum), hydrotreated light**

| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------|----------|-------|------|----------|-------------|-------|
| Aspiration hazard: |          |       |      |          |             | Yes   |

**Hydrocarbons, C7-C9, isoalkanes**

| Toxicity / effect   | Endpoint | Value | Unit  | Organism   | Test method   | Notes  |
|---|----------|-------|-------|------------|---|--|
| Acute toxicity, by oral route:                                | LD50     | >5000 | mg/kg | Rat        | OECD 401 (Acute Oral Toxicity)                              |  |
| Acute toxicity, by dermal route:                              | LD50     | >2000 | mg/kg | Rabbit     | OECD 402 (Acute Dermal Toxicity)                            |  |
| Acute toxicity, by inhalation:                                | LC50     | >9,4  | mg/l  | Rat        | OECD 403 (Acute Inhalation Toxicity)                        | Aerosol  |
| Skin corrosion/irritation:                                    |          |       |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)                | Irritant   |
| Serious eye damage/irritation:                                |          |       |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                   | Not irritant                                     |
| Respiratory or skin sensitisation:                            |          |       |       | Guinea pig | OECD 406 (Skin Sensitisation)                               | Not sensitising                                  |
| Germ cell mutagenicity:                                       |          |       |       |            | OECD 471 (Bacterial Reverse Mutation Test)                  | Negative   |
| Germ cell mutagenicity:                                       |          |       |       | Rat        | OECD 478 (Genetic Toxicology - Rodent dominant Lethal Test) | Negative   |
| Reproductive toxicity:  | NOAEL    | 9000  | ppm   | Rat        | OECD 416 (Two-generation Reproduction Toxicity Study)       | Negative   |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC    | 1200  | ppm   | Rat        | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)    | Negative   |
| Aspiration hazard:  |          |       |       |            |   | Yes  |
| Symptoms:   |          |       |       |            |   | headaches, mucous membrane irritation, dizziness |

**Mixture of benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts**

| Toxicity / effect                | Endpoint | Value | Unit    | Organism | Test method                      | Notes  |
|----------------------------------|----------|-------|---------|----------|----------------------------------|--|
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg   | Rat      | OECD 401 (Acute Oral Toxicity)   |  |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg   | Rat      | OECD 402 (Acute Dermal Toxicity) |  |
| Acute toxicity, by inhalation:   | LD50     | >1,9  | mg/l/4h | Rat      |                                  | Aerosol, Maximum achievable concentration., Analogous conclusion |

|                                    |  |  |  |        |  |               |
|------------------------------------|--|--|--|--------|--|---------------|
| Skin corrosion/irritation:         |  |  |  | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion)           | Not irritant  |
| Serious eye damage/irritation:     |  |  |  | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion)              | Not irritant  |
| Respiratory or skin sensitisation: |  |  |  | Mouse  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Skin Sens. 1B |
| Germ cell mutagenicity:            |  |  |  |        | (Ames-Test)  | Negative      |

**Petroleum gases, liquified**

| Toxicity / effect              | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|------|----------|-------------|-------|
| Acute toxicity, by inhalation: | LC50     | >5    | mg/l |          |             |       |

**SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

**WD-40® Specialist® High Performance PTFE Lubricant**

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
|--|----------|------|-------|------|----------|-------------|--|
| 12.1. Toxicity to fish:                  |          |      |       |      |          |             | n.d.a.   |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a.   |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |             | n.d.a.   |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | Isolate as much as possible with an oil separator. |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a.   |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | n.d.a.   |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a.   |
| 12.6. Other adverse effects:             |          |      |       |      |          |             | n.d.a.   |

**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**

| Toxicity / effect                    | Endpoint | Time | Value   | Unit | Organism                         | Test method  | Notes                 |
|--------------------------------------|----------|------|---------|------|----------------------------------|--|-----------------------|
| 12.1. Toxicity to fish:              | LC50     | 96h  | 13,4    | mg/l | Oncorhynchus mykiss              |  |                       |
| 12.1. Toxicity to fish:              | LL50     | 96h  | >13,4   | mg/l | Oncorhynchus mykiss              | OECD 203 (Fish, Acute Toxicity Test)                               |                       |
| 12.1. Toxicity to fish:              | NOELR    | 28d  | 1,53    | mg/l | Oncorhynchus mykiss              | QSAR   |                       |
| 12.1. Toxicity to daphnia:           | NOELR    | 21d  | 1       | mg/l | Daphnia magna                    | OECD 211 (Daphnia magna Reproduction Test)                         |                       |
| 12.1. Toxicity to algae:             | EC50     | 72h  | 10 - 30 | mg/l | Pseudokirchnerie lla subcapitata |  |                       |
| 12.1. Toxicity to algae:             | NOELR    | 72h  | 10      | mg/l | Pseudokirchnerie lla subcapitata |  |                       |
| 12.1. Toxicity to algae:             | ErL50    | 72h  | 10-30   | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.1. Toxicity to algae:             | NOELR    | 72h  | 6,3     | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.2. Persistence and degradability: |          | 28d  | 98      | %    |                                  | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| Water solubility:                    |          |      | 2,6     | mg/l |                                  |  | 25°C                  |

| <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> |                 |             |              |             |                                 |  |                                     |
|---|-----------------|-------------|--------------|-------------|---------------------------------|--|-------------------------------------|
| <b>Toxicity / effect</b>  | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>                 | <b>Test method</b>   | <b>Notes</b>                        |
| 12.1. Toxicity to fish:   | NOELR           | 28d         | 0,13         | mg/l        | Oncorhynchus mykiss             | QSAR   |                                     |
| 12.1. Toxicity to daphnia:  | EC50            | 48h         | >1000        | mg/l        | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                     |
| 12.3. Bioaccumulative potential:  |                 |             | 5-6,7        |             |                                 |  | High                                |
| 12.1. Toxicity to fish:   | LC50            | 96h         | >1000        | mg/l        | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |                                     |
| 12.1. Toxicity to algae:  | ErC50           | 72h         | >1000        | mg/l        | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.1. Toxicity to algae:  | EbC50           | 72h         | >1000        | mg/l        | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.1. Toxicity to algae:  | NOELR           | 72h         | 100          | mg/l        | Raphidocelis subcapitata        | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.1. Toxicity to algae:  | NOELR           | 72h         | 100          | mg/l        | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.2. Persistence and degradability:  |                 | 28d         | 80           | %           |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable               |
| 12.1. Toxicity to daphnia:  | NOELR           | 21d         | 0,23         | mg/l        | Daphnia magna                   | QSAR   |                                     |
| 12.5. Results of PBT and vPvB assessment                                      |                 |             |              |             |                                 |  | No PBT substance, No vPvB substance |

| <b>Hydrocarbons, C7-C9, isoalkanes</b> |                 |             |              |             |                                 |  |   |
|--|-----------------|-------------|--------------|-------------|---------------------------------|--|---|
| <b>Toxicity / effect</b>               | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>                 | <b>Test method</b>   | <b>Notes</b>                            |
| 12.1. Toxicity to fish:                | LC0             |             | 0,11         | mg/l        | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |   |
| 12.1. Toxicity to daphnia:             | EL50            | 48h         | 2,4          | mg/l        | Daphnia magna                   |  |   |
| 12.1. Toxicity to daphnia:             | EC50            | 21d         | 0,23         | mg/l        | Daphnia magna                   | OECD 211 (Daphnia magna Reproduction Test)                         |   |
| 12.1. Toxicity to algae:               | EL50            | 72h         | 12           | mg/l        | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| 12.2. Persistence and degradability:   |                 | 28d         | 22           | %           |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily but inherent biodegradable. |
| 12.2. Persistence and degradability:   |                 | 28d         | 22           | %           |                                 |  | Hardly biodegradable                    |
| Other organisms:                       | EL50            | 48h         | 28,48        | mg/l        | Tetrahymen pyriformis           |  |   |

| <b>Mixture of benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b> |                 |             |              |             |                 |                    |              |
|--|-----------------|-------------|--------------|-------------|-----------------|--------------------|--------------|
| <b>Toxicity / effect</b>   | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b> |

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|                                      |      |     |      |      |                                 |  |   |
|--------------------------------------|------|-----|------|------|---------------------------------|--|---|
| 12.1. Toxicity to fish:              | EC50 | 96h | >100 | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                     |   |
| 12.1. Toxicity to daphnia:           | EC50 | 48h | >100 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)         |   |
| 12.1. Toxicity to algae:             | EC50 | 72h | >100 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                  |   |
| 12.2. Persistence and degradability: |      | 28d | 8    | %    |                                 | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Not readily biodegradable                               |
| 12.3. Bioaccumulative potential:     | BCF  |     | 70,8 |      |                                 |  | Biological accumulation potential:., Not to be expected |

| Petroleum gases, liquified |          |      |        |      |          |             |       |
|----------------------------|----------|------|--------|------|----------|-------------|-------|
| Toxicity / effect          | Endpoint | Time | Value  | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish:    | LC50     | 96h  | 147,54 | mg/l |          | QSAR        |       |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:  
 The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)  
 07 06 04 other organic solvents, washing liquids and mother liquors

Recommendation:  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 Take full aerosol cans to problem waste collection.  
 Take emptied aerosol cans to valuable material collection.

#### For contaminated packing material

Pay attention to local and national official regulations.  
 Recommendation:  
 Do not perforate, cut up or weld uncleaned container.  
 Recycling  
 15 01 04 metallic packaging

## SECTION 14: Transport information

### General statements

14.1. UN number: 1950

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

Classification code: 5F

LQ: 1 L

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code: D

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS (HYDROCARBONS, C7)

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -



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EmS: F-D, S-U  
 Marine Pollutant: Yes  
 14.5. Environmental hazards: environmentally hazardous

### Transport by air (IATA)

14.2. UN proper shipping name:  
 Aerosols, flammable  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 14.5. Environmental hazards: Not applicable



### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

## SECTION 15: Regulatory information

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

Observe restrictions:  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---|---|
| E2                |                  | 200   | 500   |
| P3a               | 11.1             | 150 (netto)   | 500 (netto)   |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): ~ 82 %

### REGULATION (EC) No 648/2004

n.a.

Observe incident regulations.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

EU F0058  
 Revised sections: 2, 3, 8, 11, 12, 15  
 Employee training in handling dangerous goods is required.  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|------------------------|
|---|------------------------|



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|                         |   |
|-------------------------|---|
| Skin Irrit. 2, H315     | Classification according to calculation procedure.  |
| STOT SE 3, H336         | Classification according to calculation procedure.  |
| Aquatic Chronic 2, H411 | Classification according to calculation procedure.  |
| Aerosol 1, H222         | Classification according to calculation procedure.  |
| Asp. Tox. 1, H304       | Classification according to calculation procedure.  |
| Aerosol 1, H229         | Classification based on the form or physical state. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Asp. Tox. — Aspiration hazard

Flam. Liq. — Flammable liquid

Skin Sens. — Skin sensitization

### Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency  
EEA European Economic Area  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ERC Environmental Release Categories  
ES Exposure scenario  
etc. et cetera  
EU European Union  
EWC European Waste Catalogue  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
HGWP Halocarbon Global Warming Potential  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IBC Intermediate Bulk Container  
IBC (Code) International Bulk Chemical (Code)  
IC Inhibitory concentration  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
LC lethal concentration  
LC50 lethal concentration 50 percent kill  
LCLo lowest published lethal concentration  
LD Lethal Dose of a chemical  
LD50 Lethal Dose, 50% kill  
LDLo Lethal Dose Low  
LOAEL Lowest Observed Adverse Effect Level  
LOEC Lowest Observed Effect Concentration  
LOEL Lowest Observed Effect Level  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute of Occupational Safety and Health (United States of America)  
NOAEC No Observed Adverse Effective Concentration  
NOAEL No Observed Adverse Effect Level  
NOEC No Observed Effect Concentration  
NOEL No Observed Effect Level  
ODP Ozone Depletion Potential  
OECD Organisation for Economic Co-operation and Development  
org. organic  
PAH polycyclic aromatic hydrocarbon  
PBT persistent, bioaccumulative and toxic  
PC Chemical product category  
PE Polyethylene  
PNEC Predicted No Effect Concentration  
POCP Photochemical ozone creation potential  
ppm parts per million  
PROC Process category  
PTFE Polytetrafluorethylene  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
SADT Self-Accelerating Decomposition Temperature  
SAR Structure Activity Relationship

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SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90**

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