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

## 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

### PTFE Longlife Spray

#### 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

LIQUI MOLY GmbH  
Jerg-Wieland-Str. 4  
89081 Ulm-Lehr  
Tel.: (+49) 0731-1420-0  
Fax: (+49) 0731-1420-88

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:

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

+49 (0) 700 / 24 112 112 (LMR)  
+1 872 5888271 (LMR)

### 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.                            |
| Aquatic Chronic | 3               | H412-Harmful to aquatic life with long lasting effects. |
| Aerosol         | 1               | H222-Extremely flammable aerosol.                       |
| 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. H412-Harmful 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. P280-Wear protective gloves.

P332+P313-If skin irritation occurs: Get medical advice / attention.

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

P501-Dispose of contents / container to an approved waste disposal facility.

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

## 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 (&lt; 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 (&lt; 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (&lt; 0,1 %).

## SECTION 3: Composition/information on ingredients

Aerosol

### 3.1 Substances

n.a.

### 3.2 Mixtures

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane      |  |
|--|--|
| Registration number (REACH)  | 01-2119475514-35-XXXX  |
| Index  | ---  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 921-024-6  |
| CAS  | ---  |
| content %  | 5-15   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

| Distillates (petroleum), hydrotreated light paraffinic                 |                       |
|--|-----------------------|
| Registration number (REACH)  | 01-2119487077-29-XXXX |
| Index  | 649-468-00-3          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 265-158-7             |
| CAS  | 64742-55-8            |
| content %  | <10                   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304     |

| Distillates (petroleum), hydrotreated heavy paraffinic |                       |
|--|-----------------------|
| Registration number (REACH)                            | 01-2119484627-25-XXXX |

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|   |                   |
|---|-------------------|
| <b>Index</b>  | 649-467-00-8      |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 265-157-1         |
| <b>CAS</b>  | 64742-54-7        |
| <b>content %</b>  | <10               |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Asp. Tox. 1, H304 |

|   |                       |
|---|-----------------------|
| <b>Distillates (petroleum), solvent-dewaxed heavy paraffinic</b>              |                       |
| <b>Registration number (REACH)</b>  | 01-2119471299-27-XXXX |
| <b>Index</b>  | 649-474-00-6          |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 265-169-7             |
| <b>CAS</b>  | 64742-65-0            |
| <b>content %</b>  | <10                   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Asp. Tox. 1, H304     |

|   |                       |
|---|-----------------------|
| <b>Distillates (petroleum), solvent-dewaxed light paraffinic</b>              |                       |
| <b>Registration number (REACH)</b>  | 01-2119480132-48-XXXX |
| <b>Index</b>  | 649-469-00-9          |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 265-159-2             |
| <b>CAS</b>  | 64742-56-9            |
| <b>content %</b>  | <10                   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Asp. Tox. 1, H304     |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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.

## 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.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

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

The following may occur:

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

With long-term contact:

drying of the skin.

Dermatitis (skin inflammation)

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

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Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO<sub>2</sub> / dry extinguisher.

#### 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

Toxic gases

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 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.

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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.  
 Observe special regulations for aerosols!  
 Observe special storage conditions.  
 Do not store with flammable or self-igniting materials.  
 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):  
 600 mg/m<sup>3</sup>

| Chemical Name                  | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane   | Content %:5-15 |
|--------------------------------|---|----------------|
| WEL-TWA: 600 mg/m <sup>3</sup> | WEL-STEL: ---   | ---            |
| Monitoring procedures:         | - Compur - KITA-187 S (551 174)                                     |                |
| BMGV: ---                      | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) |                |

| Chemical Name             | Propane  | Content %: |
|---------------------------|--|------------|
| WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: ---  | ---        |
| Monitoring procedures:    | - Compur - KITA-125 SA (549 954)<br>- OSHA PV2077 (Propane) - 1990 |            |
| BMGV: ---                 | Other information: ---   |            |

| Chemical Name   | Oil mist, mineral                    | Content %: |
|---|--------------------------------------|------------|
| WEL-TWA: 5 mg/m <sup>3</sup> (Mineral oil, excluding metal working fluids, ACGIH) | WEL-STEL: ---                        | ---        |
| Monitoring procedures:  | - Draeger - Oil Mist 1/a (67 33 031) |            |
| BMGV: ---   | Other information: ---               |            |

| Chemical Name                              | Butane  | Content %: |
|--|---|------------|
| WEL-TWA: 600 ppm (1450 mg/m <sup>3</sup> ) | WEL-STEL: 750 ppm (1810 mg/m <sup>3</sup> )                         | ---        |
| Monitoring procedures:                     | - Compur - KITA-221 SA (549 459)<br>- OSHA PV2010 (n-Butane) - 1993 |            |
| BMGV: ---                                  | Other information: ---  |            |

| Chemical Name                  | Isobutane                           | Content %: |
|--------------------------------|-------------------------------------|------------|
| WEL-TWA: 1000 ppm (EX) (ACGIH) | WEL-STEL: ---                       | ---        |
| Monitoring procedures:         | - Compur - KITA-113 SB(C) (549 368) |            |
| BMGV: ---                      | Other information: ---              |            |

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

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| Area of application | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit              | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Consumer            | Human - dermal                             | Long term, systemic effects | DNEL       | 699   | mg/kg bw/day      |      |
| Consumer            | Human - inhalation                         | Long term, systemic effects | DNEL       | 608   | mg/m <sup>3</sup> |      |
| Consumer            | Human - oral                               | Long term, systemic effects | DNEL       | 699   | mg/kg bw/day      |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects | DNEL       | 773   | 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       | 2035  | mg/m <sup>3</sup> |      |

| Distillates (petroleum), hydrotreated light paraffinic |  |                             |            |       |                   |      |
|--|--|-----------------------------|------------|-------|-------------------|------|
| Area of application                                    | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit              | Note |
|  | Environment - oral (animal feed)           |                             | PNEC       | 9,33  | mg/kg feed        |      |
| Consumer   | Human - inhalation                         | Long term, local effects    | DNEL       | 1,19  | mg/m <sup>3</sup> |      |
| Consumer   | Human - oral                               | Long term, systemic effects | DNEL       | 0,74  | mg/kg bw/day      |      |
| Workers / employees                                    | Human - inhalation                         | Long term, local effects    | DNEL       | 5,6   | mg/m <sup>3</sup> |      |
| Workers / employees                                    | Human - dermal                             | Long term, systemic effects | DNEL       | 0,97  | mg/kg bw/day      |      |
| Workers / employees                                    | Human - inhalation                         | Long term, systemic effects | DNEL       | 2,7   | mg/m <sup>3</sup> |      |

| Distillates (petroleum), hydrotreated heavy paraffinic |  |                          |            |       |                   |      |
|--|--|--------------------------|------------|-------|-------------------|------|
| Area of application                                    | Exposure route / Environmental compartment | Effect on health         | Descriptor | Value | Unit              | Note |
|  | Environment - oral (animal feed)           |                          | PNEC       | 9,33  | mg/kg feed        |      |
| Consumer   | Human - inhalation                         | Long term, local effects | DNEL       | 1,2   | mg/m <sup>3</sup> |      |
| Workers / employees                                    | Human - inhalation                         | Long term, local effects | DNEL       | 5,4   | mg/m <sup>3</sup> |      |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic |  |                          |            |       |                   |      |
|---|--|--------------------------|------------|-------|-------------------|------|
| Area of application                                       | Exposure route / Environmental compartment | Effect on health         | Descriptor | Value | Unit              | Note |
|   | Environment - oral (animal feed)           |                          | PNEC       | 9,33  | mg/kg feed        |      |
| Consumer  | Human - inhalation                         | Long term, local effects | DNEL       | 1,2   | mg/m <sup>3</sup> |      |
| Workers / employees                                       | Human - inhalation                         | Long term, local effects | DNEL       | 5,4   | mg/m <sup>3</sup> |      |

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 (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).  
 (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/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.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause

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sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 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. EN 14042.

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:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

$\geq 0,5$

Permeation time (penetration time) in minutes:

$\leq 60$

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

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

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:

Yellow

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|   |  |
|---|--|
| Odour:  | Characteristic                                       |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | n.a.   |
| Flammability:   | Does not apply to aerosols.                          |
| Lower explosion limit:                                    | 1,0 Vol-%  |
| Upper explosion limit:                                    | 8,5 Vol-%  |
| Flash point:  | Does not apply to aerosols.                          |
| Auto-ignition temperature:                                | >200 °C  |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:   | Mixture is non-soluble (in water).                   |
| Kinematic viscosity:                                      | Does not apply to aerosols.                          |
| Solubility:   | Not miscible   |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:  | 3800 hPa (20°C)                                      |
| Density and/or relative density:                          | 0,71 g/cm <sup>3</sup> (20°C)                        |
| Relative vapour density:                                  | Does not apply to aerosols.                          |
| Particle characteristics:                                 | Does not apply to aerosols.                          |

## 9.2 Other information

|                    |   |
|--------------------|---|
| Explosives:        | Product is not explosive. When using: development of explosive vapour/air mixture possible. |
| Oxidising liquids: | No  |
| Evaporation rate:  | n.a.  |
| Solvents content:  | 50,57 % (Organic solvents )   |

## 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 dangerous reactions are known.

### 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.  
 Avoid contact with strong alkalis.  
 Avoid contact with strong acids.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

| PTFE Longlife Spray   |          |       |      |          |             |        |
|---|----------|-------|------|----------|-------------|--------|
| 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. |



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|   |  |  |  |  |  |        |
|---|--|--|--|--|--|--------|
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |  |  | n.d.a. |
| Aspiration hazard:  |  |  |  |  |  | n.d.a. |
| Symptoms:   |  |  |  |  |  | n.d.a. |

| <b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b> |                 |              |             |                 |  |  |
|---|-----------------|--------------|-------------|-----------------|--|--|
| <b>Toxicity / effect</b>  | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b>                               | <b>Notes</b>   |
| 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:  | LC50            | >20          | mg/l/4h     | Rat             | OECD 403 (Acute Inhalation Toxicity)             |  |
| Skin corrosion/irritation:  |                 |              |             | Rabbit          | OECD 404 (Acute Dermal Irritation/Corrosion)     | Skin Irrit. 2  |
| Serious eye damage/irritation:  |                 |              |             | Rabbit          | OECD 405 (Acute Eye Irritation/Corrosion)        | Mild irritant (Analogous conclusion)   |
| Respiratory or skin sensitisation:  |                 |              |             | Guinea pig      | OECD 406 (Skin Sensitisation)                    | No (skin contact)  |
| Carcinogenicity:  |                 |              |             |                 |  | Negative   |
| Reproductive toxicity:  |                 |              |             |                 | OECD 414 (Prenatal Developmental Toxicity Study) | Analogous conclusion, Negative   |
| Specific target organ toxicity - single exposure (STOT-SE):                 |                 |              |             |                 |  | STOT SE 3, H336  |
| Specific target organ toxicity - repeated exposure (STOT-RE):               |                 |              |             |                 |  | Negative   |
| Aspiration hazard:  |                 |              |             |                 |  | Yes  |
| Symptoms:   |                 |              |             |                 |  | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative:     |                 |              |             |                 |  | Not irritant (respiratory tract).  |

| <b>Distillates (petroleum), hydrotreated light paraffinic</b> |                 |              |             |                 |  |                                    |
|---|-----------------|--------------|-------------|-----------------|--|------------------------------------|
| <b>Toxicity / effect</b>                                      | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b>                           | <b>Notes</b>                       |
| Acute toxicity, by oral route:                                | LD50            | >5000        | mg/kg       | Rat             | OECD 401 (Acute Oral Toxicity)               | Analogous conclusion               |
| Acute toxicity, by dermal route:                              | LD50            | >5000        | mg/kg       | Rabbit          | OECD 402 (Acute Dermal Toxicity)             | Analogous conclusion               |
| Acute toxicity, by inhalation:                                | LC50            | >5,53        | mg/l/4h     | Rat             | OECD 403 (Acute Inhalation Toxicity)         | Aerosol, Analogous conclusion      |
| Skin corrosion/irritation:                                    |                 |              |             | Rabbit          | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Analogous conclusion |
| Serious eye damage/irritation:                                |                 |              |             | Rabbit          | OECD 405 (Acute Eye Irritation/Corrosion)    | Not irritant, Analogous conclusion |

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|   |       |      |            |                        |  |  |
|---|-------|------|------------|------------------------|--|--|
| Respiratory or skin sensitisation:                                      |       |      |            | Guinea pig             | OECD 406 (Skin Sensitisation)                                  | No (skin contact), Analogous conclusion        |
| Germ cell mutagenicity:   |       |      |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative, Analogous conclusion                 |
| Germ cell mutagenicity:   |       |      |            | Mammalian              | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative, Analogous conclusion Chinese hamster |
| Reproductive toxicity (Developmental toxicity):                         |       |      |            | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, Analogous conclusion                 |
| Carcinogenicity:  |       |      |            | Mouse                  | OECD 451 (Carcinogenicity Studies)                             | Negative, Analogous conclusion dermal          |
| Reproductive toxicity:  | NOAEL | 1000 | mg/kg bw/d | Rat                    | OECD 421 (Reproduction/Developmental Toxicity Screening Test)  | Analogous conclusion dermal                    |
| Aspiration hazard:  |       |      |            |                        |  | Yes  |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 125  | mg/kg bw/d | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion                           |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | <30  | mg/kg bw/d | Rat                    | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)           | Analogous conclusion                           |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | 1000 | mg/kg      | Rabbit                 | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)              | Analogous conclusion                           |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,05 | mg/l       | Rat                    | OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)         | Aerosol, Analogous conclusion                  |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,15 | mg/l       | Rat                    |  | Aerosol, Analogous conclusion 13 weeks         |

**Distillates (petroleum), hydrotreated heavy paraffinic**

| Toxicity / effect                  | Endpoint | Value | Unit    | Organism   | Test method  | Notes                                   |
|------------------------------------|----------|-------|---------|------------|--|---|
| Acute toxicity, by oral route:     | LD50     | >5000 | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity)                           | Analogous conclusion                    |
| Acute toxicity, by dermal route:   | LD50     | >2000 | mg/kg   | Rabbit     | OECD 402 (Acute Dermal Toxicity)                         | Analogous conclusion                    |
| Acute toxicity, by inhalation:     | LC50     | >5,53 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)                     | Aerosol, Analogous conclusion           |
| Skin corrosion/irritation:         |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant, Analogous conclusion      |
| Serious eye damage/irritation:     |          |       |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                | Not irritant, Analogous conclusion      |
| Respiratory or skin sensitisation: |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                            | No (skin contact), Analogous conclusion |
| Germ cell mutagenicity:            |          |       |         |            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative Chinese hamster                |

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|   |       |       |                   |                        |  |   |
|---|-------|-------|-------------------|------------------------|--|---|
| Germ cell mutagenicity:   |       |       |                   | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative, Analogous conclusion                                  |
| Germ cell mutagenicity:   |       |       |                   | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative, Analogous conclusion                                  |
| Germ cell mutagenicity:   |       |       |                   | Mammalian              | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative, Analogous conclusion                                  |
| Carcinogenicity:  |       |       |                   | Mouse                  | OECD 451 (Carcinogenicity Studies)                             | Negative, Analogous conclusion<br>78 weeks, dermal              |
| Reproductive toxicity:  |       |       |                   | Rat                    | OECD 421 (Reproduction/Developmental Toxicity Screening Test)  | Negative, Analogous conclusion<br>oral                          |
| Reproductive toxicity (Developmental toxicity):                         |       |       |                   | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, Analogous conclusion<br>dermal                        |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | ~1000 | mg/kg bw/d        | Rabbit                 | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)              | Analogous conclusion  |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | <30   | mg/kg             | Rat                    | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)           | Analogous conclusion  |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOEC  | ~220  | mg/m <sup>3</sup> | Rat                    | OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)         | Analogous conclusion, Aerosol                                   |
| Symptoms:   |       |       |                   |                        |  | coughing, respiratory distress, nausea and vomiting., diarrhoea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | LOAEL | 125   | mg/kg             | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion  |

**Distillates (petroleum), solvent-dewaxed heavy paraffinic**

| 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 inhalation:     | LD50     | >5,53 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)                     | Aerosol   |
| Skin corrosion/irritation:         |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant, Analogous conclusion                |
| Serious eye damage/irritation:     |          |       |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                | Not irritant, Analogous conclusion                |
| Respiratory or skin sensitisation: |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                            | No (skin contact), Analogous conclusion           |
| Germ cell mutagenicity:            |          |       |         | Mouse      | OECD 474 (Mammalian Erythrocyte Micronucleus Test)       | Negative, Analogous conclusion                    |
| Germ cell mutagenicity:            |          |       |         | Mammalian  | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative, Analogous conclusion<br>Chinese hamster |

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|   |       |       |            |                        |   |   |
|---|-------|-------|------------|------------------------|---|---|
| Germ cell mutagenicity:   |       |       |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                    | Negative, Analogous conclusion                  |
| Germ cell mutagenicity:   |       |       |            | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)         | Negative, Analogous conclusion                  |
| Carcinogenicity:  |       |       |            | Mouse                  | OECD 451 (Carcinogenicity Studies)                            | Negative, Analogous conclusion 78 weeks, dermal |
| Reproductive toxicity (Developmental toxicity):                         |       |       |            | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)              | Negative, Analogous conclusion dermal           |
| Carcinogenicity:  |       |       |            | Mouse                  |   | Female, Negative                                |
| Reproductive toxicity:  |       |       |            | Rat                    |   | Negative  |
| Reproductive toxicity (Effects on fertility):                           |       |       |            | Rat                    | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | Negative, Analogous conclusion oral, dermal     |
| Aspiration hazard:  |       |       |            |                        |   | Yes   |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | ~1000 | mg/kg bw/d | Rabbit                 | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)             | Analogous conclusion                            |
| Symptoms:   |       |       |            |                        |   | mucous membrane irritation, dizziness, nausea   |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | 30    | mg/kg/d    | Rat                    | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)          | Analogous conclusion                            |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,22  | mg/l       | Rat                    |   | Aerosol, Analogous conclusion 4 weeks           |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,15  | mg/l       | Rat                    |   | Aerosol, Analogous conclusion 13 weeks          |

| Distillates (petroleum), solvent-dewaxed light paraffinic |          |       |         |                        |  |                   |
|---|----------|-------|---------|------------------------|--|-------------------|
| 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 inhalation:                            | LC50     | >5,53 | mg/l/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)               | Aerosol           |
| 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:                        |          |       |         | Guinea pig             | OECD 406 (Skin Sensitisation)                      | No (skin contact) |
| Germ cell mutagenicity:                                   |          |       |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)         | Negative          |
| Germ cell mutagenicity:                                   |          |       |         | Mammalian              | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative          |

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|                         |       |       |            |           |   |  |
|-------------------------|-------|-------|------------|-----------|---|--|
| Germ cell mutagenicity: |       |       |            | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)      | Negative, Analogous conclusion Chinese hamster |
| Germ cell mutagenicity: |       |       |            | Mouse     | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)         | Negative                                       |
| Reproductive toxicity:  | NOAEL | >1000 | mg/kg bw/d | Rat       | OECD 421 (Reproduction/Developmental Toxicity Screening Test) |  |
| Reproductive toxicity:  | NOAEL | >2000 | mg/kg bw/d | Rat       | OECD 414 (Prenatal Developmental Toxicity Study)              |  |
| Aspiration hazard:      |       |       |            |           |   | Yes  |
| Symptoms:               |       |       |            |           |   | drying of the skin., vomiting, nausea          |

#### Propane

| Toxicity / effect   | Endpoint | Value  | Unit    | Organism               | Test method  | Notes  |
|---|----------|--------|---------|------------------------|--|--|
| Acute toxicity, by inhalation:  | LC50     | 658    | mg/l/4h | Rat                    |  |  |
| Acute toxicity, by inhalation:  | LC50     | 260000 | ppmV/4h | Rat                    |  | Gasses, Male, Analogous conclusion   |
| Skin corrosion/irritation:  |          |        |         |                        |  | Not irritant   |
| Serious eye damage/irritation:  |          |        |         |                        |  | Not irritant   |
| Germ cell mutagenicity:   |          |        |         |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative   |
| Germ cell mutagenicity:   |          |        |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative   |
| Reproductive toxicity (Developmental toxicity):                         | NOAEC    | 21,641 | mg/l    |                        | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test) |  |
| Aspiration hazard:  |          |        |         |                        |  | No   |
| Symptoms:   |          |        |         |                        |  | breathing difficulties, unconsciousness, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL    | 7,214  | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test) |  |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL    | 21,641 | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test) |  |

#### Butane

| Toxicity / effect              | Endpoint | Value | Unit    | Organism | Test method | Notes |
|--------------------------------|----------|-------|---------|----------|-------------|-------|
| Acute toxicity, by inhalation: | LC50     | 658   | mg/l/4h | Rat      |             |       |

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|   |       |        |      |                        |  |  |
|---|-------|--------|------|------------------------|--|--|
| Germ cell mutagenicity:   |       |        |      | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative   |
| Germ cell mutagenicity:   |       |        |      |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative   |
| Germ cell mutagenicity:   |       |        |      | Human being            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative   |
| Germ cell mutagenicity:   |       |        |      | Rat                    | OECD 474 (Mammalian Erythrocyte Micronucleus Test)   | Negative   |
| Aspiration hazard:  |       |        |      |                        |  | No   |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 21,394 | mg/l | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |
| Symptoms:   |       |        |      |                        |  | ataxia, breathing difficulties, drowsiness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting. |

| Isobutane   |          |        |         |                        |  |  |
|---|----------|--------|---------|------------------------|--|--|
| Toxicity / effect   | Endpoint | Value  | Unit    | Organism               | Test method  | Notes  |
| Acute toxicity, by inhalation:  | LC50     | 658    | mg/l/4h | Rat                    |  |  |
| Acute toxicity, by inhalation:  | LC50     | 260000 | ppmV/4h | Rat                    |  | Gasses, Male   |
| Serious eye damage/irritation:  |          |        |         | Rabbit                 |  | Not irritant   |
| Germ cell mutagenicity:   |          |        |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative   |
| Aspiration hazard:  |          |        |         |                        |  | No   |
| Symptoms:   |          |        |         |                        |  | unconsciousness, frostbite, headaches, cramps, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL    | 21,394 | mg/l    | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) |  |

## 11.2. Information on other hazards

| PTFE Longlife Spray              |          |       |      |          |             |                             |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------|
| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes                       |
| Endocrine disrupting properties: |          |       |      |          |             | Does not apply to mixtures. |

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|                    |  |  |  |  |  |   |
|--------------------|--|--|--|--|--|---|
| Other information: |  |  |  |  |  | No other relevant information available on adverse effects on health. |
|--------------------|--|--|--|--|--|---|

## SECTION 12: Ecological information

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

| PTFE Longlife Spray                      |          |      |       |      |          |             |   |
|--|----------|------|-------|------|----------|-------------|---|
| 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:     |          |      |       |      |          |             | n.d.a.  |
| 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. Endocrine disrupting properties:   |          |      |       |      |          |             | Does not apply to mixtures.   |
| 12.7. Other adverse effects:             |          |      |       |      |          |             | No information available on other adverse effects on the environment. |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |           |      |       |      |                                 |  |                                      |
|---|-----------|------|-------|------|---------------------------------|--|--------------------------------------|
| Toxicity / effect   | Endpoint  | Time | Value | Unit | Organism                        | Test method  | Notes                                |
| 12.3. Bioaccumulative potential:                                  |           |      |       |      |                                 |  | Concentration in organisms possible. |
| 12.1. Toxicity to daphnia:  | NOEC/NOEL | 21d  | 0,17  | mg/l | Daphnia magna                   |  |                                      |
| 12.1. Toxicity to daphnia:  | LOEC/LOEL | 21d  | 0,32  | mg/l | Daphnia magna                   |  |                                      |
| 12.2. Persistence and degradability:                              |           | 28d  | 98    | %    |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) |                                      |
| 12.1. Toxicity to fish:   | NOEC/NOEL | 28d  | 2,045 | mg/l | Oncorhynchus mykiss             |  |                                      |
| 12.1. Toxicity to fish:   | NOELR     | 28d  | 2,04  | mg/l | Salmo gairdneri                 |  |                                      |
| 12.1. Toxicity to fish:   | LC50      | 96h  | 11,4  | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |                                      |
| 12.1. Toxicity to fish:   | LL50      | 96h  | 11,4  | mg/l | Salmo gairdneri                 | OECD 203 (Fish, Acute Toxicity Test)                               |                                      |
| 12.1. Toxicity to daphnia:  | EC50      | 48h  | 3     | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                      |
| 12.1. Toxicity to daphnia:  | NOELR     | 48h  | 2,1   | mg/l | Daphnia magna                   |  |                                      |
| 12.1. Toxicity to algae:  | EC50      | 72h  | 30    | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                      |

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|                                      |     |     |         |   |                  |  |  |
|--------------------------------------|-----|-----|---------|---|------------------|--|--|
| 12.2. Persistence and degradability: |     | 28d | 81      | % | activated sludge | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable, Analogous conclusion          |
| 12.3. Bioaccumulative potential:     | BCF |     | 242-253 |   |                  |  |  |
| 12.4. Mobility in soil:              |     |     |         |   |                  |  | Adsorption in ground., Product is slightly volatile. |
| Other information:                   | AOX |     | 0       | % |                  |  |  |

**Distillates (petroleum), hydrotreated light paraffinic**

| Toxicity / effect                        | Endpoint  | Time | Value   | Unit | Organism                        | Test method  | Notes   |
|--|-----------|------|---------|------|---------------------------------|--|---|
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 28d  | >1000   | mg/l | Oncorhynchus mykiss             | QSAR   |   |
| 12.1. Toxicity to fish:                  | LL50      | 96h  | >100    | mg/l | Pimephales promelas             | OECD 203 (Fish, Acute Toxicity Test)                               | Analogous conclusion                            |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 14d  | 1000    | mg/l | Oncorhynchus mykiss             | QSAR   |   |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 10      | mg/l | Daphnia magna                   | OECD 211 (Daphnia magna Reproduction Test)                         | Analogous conclusion                            |
| 12.3. Bioaccumulative potential:         |           |      |         |      |                                 |  | Not to be expected                              |
| 12.1. Toxicity to daphnia:               | EL50      | 48h  | > 10000 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion                            |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | >=100   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            | Analogous conclusion                            |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | >100    | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            | Analogous conclusion                            |
| 12.2. Persistence and degradability:     |           | 28d  | 31      | %    | activated sludge                | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable, Analogous conclusion |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | >6      |      |                                 |  | @20°C   |
| 12.5. Results of PBT and vPvB assessment |           |      |         |      |                                 |  | No PBT substance, No vPvB substance             |

**Distillates (petroleum), hydrotreated heavy paraffinic**

| Toxicity / effect          | Endpoint  | Time | Value | Unit | Organism            | Test method                                      | Notes                |
|----------------------------|-----------|------|-------|------|---------------------|--|----------------------|
| 12.1. Toxicity to fish:    | NOEC/NOEL | 96h  | >100  | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test)             |                      |
| 12.1. Toxicity to fish:    | NOEC/NOEL | 14d  | 1000  | mg/l | Oncorhynchus mykiss | QSAR   |                      |
| 12.1. Toxicity to daphnia: | EL50      | 48h  | 10000 | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |



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|  |           |     |        |      |                                 |  |   |
|--|-----------|-----|--------|------|---------------------------------|--|---|
| 12.1. Toxicity to daphnia:               | LL50      | 96h | >10000 | mg/l |                                 | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |   |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d | 10     | mg/l | Daphnia magna                   | OECD 211 (Daphnia magna Reproduction Test)                         | Analogous conclusion                            |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h | >=100  | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |   |
| 12.2. Persistence and degradability:     |           | 28d | 31     | %    |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable, Analogous conclusion |
| 12.5. Results of PBT and vPvB assessment |           |     |        |      |                                 |  | No PBT substance, No vPvB substance             |
| Water solubility:                        |           |     |        |      |                                 |  | Insoluble                                       |

**Distillates (petroleum), solvent-dewaxed heavy paraffinic**

| Toxicity / effect                        | Endpoint  | Time | Value | Unit | Organism                | Test method  | Notes  |
|--|-----------|------|-------|------|-------------------------|--|--|
| 12.5. Results of PBT and vPvB assessment |           |      |       |      |                         |  | No PBT substance, No vPvB substance              |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >100  | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)                               | Analogous conclusion                             |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 14d  | 1000  | mg/l | Oncorhynchus mykiss     | QSAR   |  |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >1000 | mg/l | Salmo gairdneri         |  |  |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >5000 | mg/l | Oncorhynchus mykiss     | OECD 203 (Fish, Acute Toxicity Test)                               |  |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | >1000 | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion                             |
| 12.1. Toxicity to algae:                 | EC50      | 96h  | >1000 | mg/l | Scenedesmus subspicatus |  |  |
| 12.2. Persistence and degradability:     |           | 28d  | 6     | %    |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)           | Analogous conclusion                             |
| 12.2. Persistence and degradability:     |           | 28d  | 31    | %    | activated sludge        | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable (Analogous conclusion) |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | >3    |      |                         |  | Low  |
| Toxicity to bacteria:                    | EC20      | 6h   | >1000 | mg/l | Pseudomonas fluorescens |  |  |

**Distillates (petroleum), solvent-dewaxed light paraffinic**

| Toxicity / effect       | Endpoint | Time | Value | Unit | Organism            | Test method                          | Notes |
|-------------------------|----------|------|-------|------|---------------------|--------------------------------------|-------|
| 12.1. Toxicity to fish: | LL50     | 96h  | >100  | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) |       |

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|  |           |     |        |      |                                 |  |                                     |
|--|-----------|-----|--------|------|---------------------------------|--|-------------------------------------|
| 12.1. Toxicity to daphnia:               | EL50      | 48h | >10000 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                     |
| 12.1. Toxicity to daphnia:               | LL50      | 48h | >1000  | mg/l | Gammarus sp.                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                     |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d | 10     | mg/l | Daphnia magna                   | OECD 211 (Daphnia magna Reproduction Test)                         |                                     |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h | >100   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.2. Persistence and degradability:     |           | 28d | 31     | %    | activated sludge                | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Inherent                            |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | >3     |      |                                 |  | Low                                 |
| 12.5. Results of PBT and vPvB assessment |           |     |        |      |                                 |  | No PBT substance, No vPvB substance |

#### Propane

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
|--|----------|------|-------|------|----------|-------------|---|
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,28  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

#### Butane

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
|--|----------|------|-------|------|----------|-------------|---|
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 24,11 | mg/l |          | QSAR        |   |
| 12.1. Toxicity to daphnia:               | LC50     | 48h  | 14,22 | mg/l |          | QSAR        |   |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 2,98  |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance   |

#### Isobutane

| Toxicity / effect                | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
|----------------------------------|----------|------|-------|------|----------|-------------|---|
| 12.3. Bioaccumulative potential: |          |      |       |      |          |             | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.1. Toxicity to fish:          | LC50     | 96h  | 27,98 | mg/l |          |             |   |
| 12.1. Toxicity to algae:         | EC50     | 96h  | 7,71  | mg/l |          |             |   |

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|  |  |  |  |  |  |  |                                     |
|--|--|--|--|--|--|--|-------------------------------------|
| 12.2. Persistence and degradability:     |  |  |  |  |  |  | Readily biodegradable               |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | No PBT substance, No vPvB substance |

## 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)

16 05 04 gases in pressure containers (including halons) containing hazardous substances

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 or ID 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: Not applicable

Tunnel restriction code: D



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

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

EmS: F-D, S-U

Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable



#### 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. Maritime transport in bulk according to IMO instruments

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Freight 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)!  
 Regulation (EC) No 1907/2006, Annex XVII  
 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
 Comply with trade association/occupational health regulations.  
 Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

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 |
|-------------------|------------------|---|---|
| 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 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

| Entry Nr | Dangerous substances   | Notes to Annex I | Qualifying quantity (tonnes) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) for the application of - Upper-tier requirements |
|----------|--|------------------|---|---|
| 18       | Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas | 19               | 50  | 200   |

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): 50,57 %

Observe incident regulations.

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 3, 8, 11, 12  
 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                             |
|---|--|
| Skin Irrit. 2, H315   | Classification according to calculation procedure. |

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|-------------------------|---|
| Aquatic Chronic 3, H412 | Classification according to calculation procedure.  |
| Aerosol 1, H222         | 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.

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

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid

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

Asp. Tox. — Aspiration hazard

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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

acc., acc. to according, according to

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

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

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

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

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

EbCx, EyCx, EBLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

|  |   |
|--|---|
| 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)  |
| ErCx, E <sub>μ</sub> Cx, ErLx (x = 10, 50) | Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  |
| etc.                                       | et cetera   |
| EU   | European Union  |
| EVAL                                       | Ethylene-vinyl alcohol copolymer  |
| Fax.                                       | Fax number  |
| gen.                                       | general   |
| GHS  | Globally Harmonized System of Classification and Labelling of Chemicals   |
| GWP  | Global warming potential  |
| Koc  | Adsorption coefficient of organic carbon in the soil  |
| Kow  | octanol-water partition coefficient   |
| IARC                                       | International Agency for Research on Cancer   |
| IATA                                       | International Air Transport Association   |
| IBC (Code)                                 | International Bulk Chemical (Code)  |
| IMDG-code                                  | International Maritime Code for Dangerous Goods   |
| incl.                                      | including, inclusive  |
| IUCLID                                     | International Uniform Chemical Information Database   |
| IUPAC                                      | International Union for Pure Applied Chemistry  |
| LC50                                       | Lethal Concentration to 50 % of a test population   |
| LD50                                       | Lethal Dose to 50% of a test population (Median Lethal Dose)  |
| Log Koc                                    | Logarithm of adsorption coefficient of organic carbon in the soil   |
| Log Kow, Log Pow                           | Logarithm of octanol-water partition coefficient  |
| 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 for Occupational Safety and Health (USA)   |
| NLP  | No-longer-Polymer   |
| NOEC, NOEL                                 | No Observed Effect Concentration/Level  |
| OECD                                       | Organisation for Economic Co-operation and Development  |
| org.                                       | organic   |
| OSHA                                       | Occupational Safety and Health Administration (USA)   |
| PBT  | persistent, bioaccumulative and toxic   |
| PE   | Polyethylene  |
| PNEC                                       | Predicted No Effect Concentration   |
| ppm  | parts per million   |
| PVC  | Polyvinylchloride   |
| 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)   |
| SVHC                                       | Substances of Very High Concern   |
| Tel.                                       | Telephone   |
| TOC  | Total organic carbon  |
| UN RTDG                                    | United Nations Recommendations on the Transport of Dangerous Goods  |
| VOC  | Volatile organic compounds  |
| vPvB                                       | very persistent and very bioaccumulative  |
| 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:

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