

## 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

**Kettenspray**  
**Chain 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

GB

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:**

GB

Landspítali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

**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.                            |
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.      |
| STOT SE         | 3               | H336-May cause drowsiness or dizziness.                 |
| 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

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



Danger

H315-Causes skin irritation. H336-May cause drowsiness or dizziness. 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. P261-Avoid breathing vapours or spray. 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 to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible.  
 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

### 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 %).  
 The mixture does not contain any substance with endocrine disrupting properties (< 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 %                                                              | 20-<30                                                                                                       |
| 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 |

| Baseoil - unspecified *                |     |
|----------------------------------------|-----|
| Registration number (REACH)            | --- |
| Index                                  | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | --- |
| CAS                                    | --- |
| content %                              | <20 |

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|                                                                               |                   |
|-------------------------------------------------------------------------------|-------------------|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Asp. Tox. 1, H304 |
|-------------------------------------------------------------------------------|-------------------|

|                                                                               |                                           |
|-------------------------------------------------------------------------------|-------------------------------------------|
| <b>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>  |                                           |
| <b>Registration number (REACH)</b>                                            | 01-2119491299-23-XXXX                     |
| <b>Index</b>                                                                  | ---                                       |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 270-128-1                                 |
| <b>CAS</b>                                                                    | 68411-46-1                                |
| <b>content %</b>                                                              | 0,1-<1                                    |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Repr. 2, H361f<br>Aquatic Chronic 3, H412 |

|                                                                               |                                                                                               |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Isodecyl methacrylate</b>                                                  |                                                                                               |
| <b>Registration number (REACH)</b>                                            | 01-2119894925-17-XXXX                                                                         |
| <b>Index</b>                                                                  | 607-134-00-4                                                                                  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 249-978-2                                                                                     |
| <b>CAS</b>                                                                    | 29964-84-9                                                                                    |
| <b>content %</b>                                                              | 0,1-<0,25                                                                                     |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Chronic 1, H410 (M=1) |
| <b>Specific Concentration Limits and ATE</b>                                  | STOT SE 3, H335: >=10 %                                                                       |

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 contained mineral oil can be described by one or more of the following numbers:

| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b> | <b>Registration number (REACH)</b> | <b>Chemical name</b>                                      |
|-----------------------------------------------|------------------------------------|-----------------------------------------------------------|
| 265-157-1                                     | 01-2119484627-25-XXXX              | Distillates (petroleum), hydrotreated heavy paraffinic    |
| 265-169-7                                     | 01-2119471299-27-XXXX              | Distillates (petroleum), solvent-dewaxed heavy paraffinic |
| 265-158-7                                     | 01-2119487077-29-XXXX              | Distillates (petroleum), hydrotreated light paraffinic    |
| 265-159-2                                     | 01-2119480132-48-XXXX              | Distillates (petroleum), solvent-dewaxed light paraffinic |
| 232-455-8                                     | 01-2119487078-27-XXXX              | White mineral oil (Natural oil)                           |

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.  
 The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## 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.  
 Do not induce vomiting. Consult doctor immediately.  
 In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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## 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.

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effect on the central nervous system

Coordination disorders

Mental confusion

Unconsciousness

Ingestion:

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

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

Symptomatic treatment.

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

### Suitable extinguishing media

CO<sub>2</sub>

Foam

Extinction powder

Water jet spray

### 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 nitrogen

Oxides of phosphorus

Metal oxides

Toxic gases

Danger of bursting (explosion) when heated

Possible build up of explosive/highly flammable vapour/air mixture.

## 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.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

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### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

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

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

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) and dispose of according to Section 13.

Do not wash away with water or watery cleaning agents.

### 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.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Avoid contact with eyes or skin.

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.

Solvent resistant floor

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.

### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## 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):

1000 mg/m<sup>3</sup>

| GB | Chemical Name | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |               |
|----|---------------|-------------------------------------------------------------------|---------------|
|    | WEL-TWA:      | 1000 mg/m <sup>3</sup>                                            | WEL-STEL: --- |
|    |               |                                                                   | ---           |

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|                        |                                 |                                                                     |
|------------------------|---------------------------------|---------------------------------------------------------------------|
| Monitoring procedures: | - Compur - KITA-187 S (551 174) | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) |
| BMGV: ---              |                                 |                                                                     |

| Chemical Name             |                                                                 | Hydrocarbons, C3-4     |     |
|---------------------------|-----------------------------------------------------------------|------------------------|-----|
| WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: 1250 ppm (2180 mg/m3) (Liquefied petroleum gas (LPG)) |                        | --- |
| Monitoring procedures:    | ---                                                             |                        |     |
| BMGV: ---                 |                                                                 | Other information: --- |     |

| Chemical Name                                                         |                                      | Oil mist, mineral      |     |
|-----------------------------------------------------------------------|--------------------------------------|------------------------|-----|
| WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal working fluids, ACGIH) | WEL-STEL: ---                        |                        | --- |
| Monitoring procedures:                                                | - Draeger - Oil Mist 1/a (67 33 031) |                        |     |
| BMGV: ---                                                             |                                      | Other information: --- |     |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |                                            |                             |            |       |            |      |
|-------------------------------------------------------------------|--------------------------------------------|-----------------------------|------------|-------|------------|------|
| 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/d |      |
| Consumer                                                          | Human - dermal                             | Long term, systemic effects | DNEL       | 699   | mg/kg bw/d |      |
| Consumer                                                          | Human - inhalation                         | Long term, systemic effects | DNEL       | 608   | mg/m3      |      |
| Workers / employees                                               | Human - inhalation                         | Long term, systemic effects | DNEL       | 2035  | mg/m3      |      |
| Workers / employees                                               | Human - dermal                             | Long term, systemic effects | DNEL       | 733   | mg/kg bw/d |      |

| Baseoil - unspecified |                                            |                             |            |       |       |      |
|-----------------------|--------------------------------------------|-----------------------------|------------|-------|-------|------|
| Area of application   | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit  | Note |
|                       | Environment - oral (animal feed)           |                             | PNEC       | 9,33  | mg/kg |      |
| Consumer              | Human - inhalation                         | Long term, local effects    | DNEL       | 1,19  | mg/m3 |      |
| Consumer              | Human - oral                               | Long term, systemic effects | DNEL       | 0,74  | mg/kg |      |
| Workers / employees   | Human - dermal                             | Long term, systemic effects | DNEL       | 0,97  | mg/kg |      |
| Workers / employees   | Human - inhalation                         | Long term, local effects    | DNEL       | 5,58  | mg/m3 |      |
| Workers / employees   | Human - inhalation                         | Long term, systemic effects | DNEL       | 2,73  | mg/m3 |      |

| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene |                                                      |                  |            |         |       |      |
|-----------------------------------------------------------------------|------------------------------------------------------|------------------|------------|---------|-------|------|
| Area of application                                                   | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value   | Unit  | Note |
|                                                                       | Environment - freshwater                             |                  | PNEC       | 0,0012  | mg/l  |      |
|                                                                       | Environment - marine                                 |                  | PNEC       | 0,00012 | mg/l  |      |
|                                                                       | Environment - water, sporadic (intermittent) release |                  | PNEC       | 0,51    | mg/l  |      |
|                                                                       | Environment - sediment, freshwater                   |                  | PNEC       | 0,0246  | mg/kg |      |
|                                                                       | Environment - sediment, marine                       |                  | PNEC       | 0,00246 | mg/kg |      |
|                                                                       | Environment - soil                                   |                  | PNEC       | 0,0193  | mg/kg |      |

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|                     |                                      |                             |      |       |       |  |
|---------------------|--------------------------------------|-----------------------------|------|-------|-------|--|
|                     | Environment - sewage treatment plant |                             | PNEC | 0,187 | mg/l  |  |
| Consumer            | Human - dermal                       | Long term, systemic effects | DNEL | 0,22  | mg/kg |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects | DNEL | 0,1   | mg/m3 |  |
| Consumer            | Human - oral                         | Long term, systemic effects | DNEL | 0,05  | mg/kg |  |
| Workers / employees | Human - dermal                       | Long term, systemic effects | DNEL | 0,07  | mg/kg |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects | DNEL | 0,31  | mg/m3 |  |

| Isodecyl methacrylate |                                            |                             |            |       |       |      |
|-----------------------|--------------------------------------------|-----------------------------|------------|-------|-------|------|
| Area of application   | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit  | Note |
|                       | Environment - sediment, marine             |                             | PNEC       | 0,004 | mg/kg |      |
|                       | Environment - sediment, freshwater         |                             | PNEC       | 0,042 | mg/kg |      |
|                       | Environment - freshwater                   |                             | PNEC       | 0,24  | µg/l  |      |
|                       | Environment - marine                       |                             | PNEC       | 0,024 | µg/l  |      |
|                       | Environment - soil                         |                             | PNEC       | 0,008 | mg/kg |      |
|                       | Environment - sewage treatment plant       |                             | PNEC       | 50    | mg/l  |      |
| Workers / employees   | Human - inhalation                         | Long term, systemic effects | DNEL       | 2,5   | mg/m3 |      |
| Workers / employees   | Human - dermal                             | Long term, systemic effects | DNEL       | 5     | mg/kg |      |

| 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 |      |

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
 | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 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 (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |  
 | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE). |

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls



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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).  
If applicable  
Protective nitrile gloves (EN ISO 374).  
Protective gloves made of polyvinyl alcohol (EN ISO 374).  
Protective Viton® / fluoroelastomer gloves (EN ISO 374).  
Minimum layer thickness in mm:  
0,5  
Permeation time (penetration time) in minutes:  
480  
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:  
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



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|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Physical state:                                           | Aerosol. Active substance: liquid.                   |
| Colour:                                                   | Light brown                                          |
| 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:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| Flash point:                                              | Does not apply to aerosols.                          |
| Auto-ignition temperature:                                | Does not apply to aerosols.                          |
| 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:                                               | Insoluble                                            |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:                                          | There is no information available on this parameter. |
| Density and/or relative density:                          | ~0,718 g/ml                                          |
| Relative vapour density:                                  | Does not apply to aerosols.                          |
| Particle characteristics:                                 | Does not apply to aerosols.                          |

**9.2 Other information**

Explosives: Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.  
 Oxidising liquids: No

**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 oxidizing agents.

**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).

| Kettenspray<br>Chain 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. |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |          |       |         |            |                                              |                                    |
|-------------------------------------------------------------------|----------|-------|---------|------------|----------------------------------------------|------------------------------------|
| Toxicity / effect                                                 | Endpoint | Value | Unit    | Organism   | Test method                                  | Notes                              |
| Acute toxicity, by oral route:                                    | LD50     | >5840 | mg/kg   | Rat        |                                              |                                    |
| Acute toxicity, by dermal route:                                  | LD50     | >2920 | mg/kg   | Rat        |                                              |                                    |
| Acute toxicity, by inhalation:                                    | LC50     | 25,2  | mg/l/4h | Rat        |                                              | Vapours                            |
| Skin corrosion/irritation:                                        |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2                      |
| Serious eye damage/irritation:                                    |          |       |         |            |                                              | Slightly irritant                  |
| Respiratory or skin sensitisation:                                |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                | No (skin contact)                  |
| Specific target organ toxicity - single exposure (STOT-SE):       |          |       |         |            |                                              | May cause drowsiness or dizziness. |
| Aspiration hazard:                                                |          |       |         |            |                                              | Yes                                |
| Symptoms:                                                         |          |       |         |            |                                              | may cause headaches and vertigo.   |

| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene |          |       |       |            |                                                                                                  |                                                  |
|-----------------------------------------------------------------------|----------|-------|-------|------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 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)                                                                 |                                                  |
| Skin corrosion/irritation:                                            |          |       |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)                                                     | Mild 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:                                               |          |       |       |            | OECD 487 (In Vitro Mammalian Cell Micronucleus Test)                                             | Negative                                         |
| Reproductive toxicity:                                                |          |       |       | Rat        | OECD 443 (Extended One-Generation Reproductive Toxicity Study)                                   | Possible risk of impaired fertility.             |
| Specific target organ toxicity - single exposure (STOT-SE):           |          |       |       |            |                                                                                                  | Negative                                         |
| Specific target organ toxicity - repeated exposure (STOT-RE):         |          |       |       | Rat        | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | Target organ(s): Thyroid, Target organ(s): liver |

| Isodecyl methacrylate              |          |       |       |          |                                                        |                   |
|------------------------------------|----------|-------|-------|----------|--------------------------------------------------------|-------------------|
| 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   |                                                        |                   |
| Respiratory or skin sensitisation: |          |       |       | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |

| Hydrocarbons, C3-4 |          |       |      |          |             |       |
|--------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes |

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|                                                               |       |       |     |     |                                                          |                                                                                     |
|---------------------------------------------------------------|-------|-------|-----|-----|----------------------------------------------------------|-------------------------------------------------------------------------------------|
| Germ cell mutagenicity:                                       |       |       |     | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test)       | Negative                                                                            |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC | 10000 | ppm | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) |                                                                                     |
| Symptoms:                                                     |       |       |     |     |                                                          | malaise, nausea, dizziness, mucous membrane irritation, drowsiness, unconsciousness |

### 11.2. Information on other hazards

| Kettenspray<br>Chain Spray       |          |       |      |          |             |                                                                       |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes                                                                 |
| Endocrine disrupting properties: |          |       |      |          |             | Does not apply to mixtures.                                           |
| 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).

| Kettenspray<br>Chain 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:     |          |      |       |      |          |             | Isolate as much as possible with an oil separator.<br>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. |
| Other information:                       |          |      |       |      |          |             | According to the recipe, contains no AOX.                             |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane |           |      |       |      |                     |             |       |
|-------------------------------------------------------------------|-----------|------|-------|------|---------------------|-------------|-------|
| Toxicity / effect                                                 | Endpoint  | Time | Value | Unit | Organism            | Test method | Notes |
| 12.1. Toxicity to fish:                                           | NOEC/NOEL | 28d  | 2,045 | mg/l | Oncorhynchus mykiss | QSAR        |       |

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|                                          |           |     |         |      |                          |                                                                    |                                       |
|------------------------------------------|-----------|-----|---------|------|--------------------------|--------------------------------------------------------------------|---------------------------------------|
| 12.1. Toxicity to fish:                  | LC50      | 96h | 11,4    | mg/l | Oncorhynchus mykiss      | OECD 203 (Fish, Acute Toxicity Test)                               | Goldforelle (Oncorhynchus aguabonita) |
| 12.1. Toxicity to daphnia:               | EL50      | 48h | 3       | mg/l | Daphnia magna            | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                       |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d | 1       | mg/l | Daphnia magna            | OECD 211 (Daphnia magna Reproduction Test)                         |                                       |
| 12.1. Toxicity to algae:                 | EL50      | 72h | 30      | mg/l | Raphidocelis subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                       |
| 12.2. Persistence and degradability:     |           | 28d | 100     | %    |                          | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable                 |
| 12.3. Bioaccumulative potential:         | BCF       |     | 26-315  |      |                          |                                                                    |                                       |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | 3,4-5,2 |      |                          |                                                                    |                                       |
| 12.5. Results of PBT and vPvB assessment |           |     |         |      |                          |                                                                    | No PBT substance, No vPvB substance   |
| 12.7. Other adverse effects:             |           |     |         |      |                          |                                                                    | Product floats on the water surface.  |

**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism                | Test method                                                                              | Notes                               |
|------------------------------------------|----------|------|-------|------|-------------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| 12.1. Toxicity to fish:                  | LC50     | 96h  | >100  | mg/l | Brachydanio rerio       | OECD 203 (Fish, Acute Toxicity Test)                                                     |                                     |
| 12.1. Toxicity to daphnia:               | EC50     | 48h  | 51    | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                         |                                     |
| 12.1. Toxicity to daphnia:               | EC10     | 21d  | 1,69  | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)                                               |                                     |
| 12.1. Toxicity to algae:                 | EC50     | 72h  | >100  | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                                                  |                                     |
| 12.2. Persistence and degradability:     | Log Koc  |      | 3,8   |      |                         |                                                                                          | calculated value                    |
| 12.3. Bioaccumulative potential:         | BCF      | 42d  | 1730  |      | Cyprinus caprio         |                                                                                          | Analogous conclusion                |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |                         |                                                                                          | No PBT substance, No vPvB substance |
| 12.6. Endocrine disrupting properties:   |          |      |       |      |                         |                                                                                          | No                                  |
| Toxicity to bacteria:                    | EC20     | 3h   | ~100  | mg/l | activated sludge        | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                     |

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|                       |      |     |     |       |                 |                                                                                       |  |
|-----------------------|------|-----|-----|-------|-----------------|---------------------------------------------------------------------------------------|--|
| Toxicity to annelids: | EC10 | 56d | 259 | mg/kg | Eisenia foetida | OECD 222<br>(Earthworm<br>Reproduction Test<br>(Eisenia<br>fetida/Eisenia<br>andrei)) |  |
|-----------------------|------|-----|-----|-------|-----------------|---------------------------------------------------------------------------------------|--|

| Isodecyl methacrylate                       |           |      |       |      |                            |                                                                                                       |                                           |
|---------------------------------------------|-----------|------|-------|------|----------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Toxicity / effect                           | Endpoint  | Time | Value | Unit | Organism                   | Test method                                                                                           | Notes                                     |
| 12.1. Toxicity to fish:                     | LC50      | 48h  | 470   | mg/l | Leuciscus idus             | DIN 38412 T.15                                                                                        |                                           |
| 12.1. Toxicity to daphnia:                  | NOEC/NOEL | 21d  | 54,2  | µg/l | Daphnia magna              | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)                                          |                                           |
| 12.1. Toxicity to algae:                    | EC50      | 72h  | >16-9 | µg/l | Desmodesmus<br>subspicatus | OECD 201 (Alga,<br>Growth Inhibition<br>Test)                                                         |                                           |
| 12.1. Toxicity to algae:                    | NOEC/NOEL | 72h  | 12    | µg/l | Desmodesmus<br>subspicatus | OECD 201 (Alga,<br>Growth Inhibition<br>Test)                                                         |                                           |
| 12.2. Persistence and<br>degradability:     |           | 28d  | 62    | %    |                            | OECD 310<br>(Ready<br>Biodegradability -<br>CO <sub>2</sub> in sealed<br>vessels<br>(Headspace Test)) |                                           |
| 12.2. Persistence and<br>degradability:     |           | 28d  | 88    | %    |                            | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co <sub>2</sub> Evolution<br>Test)                      | Readily<br>biodegradable                  |
| 12.5. Results of PBT<br>and vPvB assessment |           |      |       |      |                            |                                                                                                       | No PBT<br>substance, No<br>vPvB substance |

| Hydrocarbons, C3-4                          |          |      |       |      |          |             |                                                                                                |
|---------------------------------------------|----------|------|-------|------|----------|-------------|------------------------------------------------------------------------------------------------|
| Toxicity / effect                           | Endpoint | Time | Value | Unit | Organism | Test method | Notes                                                                                          |
| 12.2. Persistence and<br>degradability:     |          |      |       |      |          |             | Biodegradable                                                                                  |
| 12.3. Bioaccumulative<br>potential:         |          |      |       |      |          |             | A notable<br>biological<br>accumulation<br>potential is not to<br>be expected<br>(LogPow 1-3). |
| 12.4. Mobility in soil:                     |          |      |       |      |          |             | Product is<br>slightly volatile.                                                               |
| 12.5. Results of PBT<br>and vPvB assessment |          |      |       |      |          |             | No PBT<br>substance, No<br>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)

07 06 04 other organic solvents, washing liquids and mother liquors

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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.


## SECTION 14: Transport information

### General statements

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

|                                   |                  |                                                                                      |
|-----------------------------------|------------------|--------------------------------------------------------------------------------------|
| 14.1. UN number or ID number:     | 1950             |                                                                                      |
| 14.2. UN proper shipping name:    | UN 1950 AEROSOLS |                                                                                      |
| 14.3. Transport hazard class(es): | 2.1              |  |
| 14.4. Packing group:              | -                |                                                                                      |
| 14.5. Environmental hazards:      | Not applicable   |                                                                                      |
| Tunnel restriction code:          | D                |                                                                                      |
| Classification code:              | 5F               |                                                                                      |
| LQ:                               | 1 L              |                                                                                      |
| Transport category:               | 2                |                                                                                      |

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

|                                   |                  |                                                                                       |
|-----------------------------------|------------------|---------------------------------------------------------------------------------------|
| 14.1. UN number or ID number:     | 1950             |                                                                                       |
| 14.2. UN proper shipping name:    | UN 1950 AEROSOLS |                                                                                       |
| 14.3. Transport hazard class(es): | 2.1              |  |
| 14.4. Packing group:              | -                |                                                                                       |
| 14.5. Environmental hazards:      | Not applicable   |                                                                                       |
| Marine Pollutant:                 | Not applicable   |                                                                                       |
| EmS:                              | F-D, S-U         |                                                                                       |

#### Transport by air (IATA)

|                                   |                             |                                                                                       |
|-----------------------------------|-----------------------------|---------------------------------------------------------------------------------------|
| 14.1. UN number or ID number:     | 1950                        |                                                                                       |
| 14.2. UN proper shipping name:    | UN 1950 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

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)!

Regulation (EC) No 1907/2006, Annex XVII

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

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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 2010/75/EU (VOC): ~ 60,5 %  
 Directive 2010/75/EU (VOC): 434,4 g/l

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 3, 6, 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.  |
| Asp. Tox. 1, H304                                                     | Classification according to calculation procedure.  |
| STOT SE 3, H336                                                       | Classification according to calculation procedure.  |
| 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.

H361f Suspected of damaging fertility.  
 H225 Highly flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

Skin Irrit. — Skin irritation  
 Asp. Tox. — Aspiration hazard



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STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Aerosol — Aerosols  
 Flam. Liq. — Flammable liquid  
 Repr. — Reproductive toxicity  
 Eye Irrit. — Eye irritation  
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

### 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  
 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  
 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, EµCx, 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

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

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  
mg/kg bw mg/kg body weight  
mg/kg bw/d, mg/kg bw/day mg/kg body weight/day  
mg/kg dw mg/kg dry weight  
mg/kg wwt mg/kg wet weight  
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. 6/7/8/9xx-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

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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