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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
Revision date / version: 25.08.2026 / 0033  
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Hybrid Additive

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

#### 1.1 Product identifier

#### Hybrid Additive

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

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

Fuel additive

##### 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

LIQUI MOLY UK  
1310 Solihull Parkway  
Birmingham Business Park  
B37 7YB Solihull  
Tel: +44 121 796 5365

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                                        |
|-----------------|-----------------|---------------------------------------------------------|
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.      |
| Aquatic Chronic | 3               | H412-Harmful to aquatic life with long lasting effects. |

#### 2.2 Label elements

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

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Danger

H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

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

P273-Avoid release to the environment.

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331-Do NOT induce vomiting.

P405-Store locked up.

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

EUH066-Repeated exposure may cause skin dryness or cracking.

EUH208-Contains Maleic anhydride. May produce an allergic reaction.

Hydrocarbons, C10, aromatics, <1% naphthalene

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

## 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

### 3.1 Substances

n.a.

### 3.2 Mixtures

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics   |                                                                           |
|------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Registration number (REACH)                                            | 01-2119457273-39-XXXX                                                     |
| Index                                                                  | ---                                                                       |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 918-481-9                                                                 |
| CAS                                                                    | ---                                                                       |
| content %                                                              | 75-<97,5                                                                  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066<br>Asp. Tox. 1, H304                                               |
| Hydrocarbons, C10, aromatics, <1% naphthalene                          |                                                                           |
| Registration number (REACH)                                            | 01-2119463583-34-XXXX                                                     |
| Index                                                                  | ---                                                                       |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 918-811-1                                                                 |
| CAS                                                                    | (64742-94-5)                                                              |
| content %                                                              | 2,5-<10                                                                   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

|             |                                                         |
|-------------|---------------------------------------------------------|
| Naphthalene | Substance for which an EU exposure limit value applies. |
|-------------|---------------------------------------------------------|

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|                                                                               |                                                                                                     |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Registration number (REACH)</b>                                            | ---                                                                                                 |
| <b>Index</b>                                                                  | 601-052-00-2                                                                                        |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 202-049-5                                                                                           |
| <b>CAS</b>                                                                    | 91-20-3                                                                                             |
| <b>content %</b>                                                              | <0,25                                                                                               |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Acute Tox. 4, H302<br>Carc. 2, H351<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |
| <b>Specific Concentration Limits and ATE</b>                                  | ATE (oral): 490 mg/kg                                                                               |

|                                                                               |                                                                                                                                                                               |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maleic anhydride</b>                                                       |                                                                                                                                                                               |
| <b>Registration number (REACH)</b>                                            | 01-2119472428-31-XXXX                                                                                                                                                         |
| <b>Index</b>                                                                  | 607-096-00-9                                                                                                                                                                  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 203-571-6                                                                                                                                                                     |
| <b>CAS</b>                                                                    | 108-31-6                                                                                                                                                                      |
| <b>content %</b>                                                              | 0,0001-<0,001                                                                                                                                                                 |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH071<br>Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1A, H317<br>STOT RE 1, H372 (respiratory system) (as inhalation) |
| <b>Specific Concentration Limits and ATE</b>                                  | Skin Sens. 1A, H317: 0,001 %                                                                                                                                                  |

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

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

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

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

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

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

No classification is required for the mixture with Carc. 2, H351, as the naphthalene content in the product is < 1 %. No other ingredients with this classification are present.

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

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

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

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

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

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

Sensitive individuals:

Allergic reaction possible.

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

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

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

CO<sub>2</sub>

Dry extinguisher

Foam

#### **Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Toxic gases

### **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 inhalation, and 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**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

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**

Soak up with absorbent material (e.g. universal binding agent) 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**

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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.

Do not heat to temperatures close to flash point.

Take precautions against electrostatic charges.

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.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Solvent resistant floor

Under all circumstances prevent penetration into the soil.

Do not store with oxidizing agents.

Store in a well ventilated place.

Protect from direct sunlight and warming.

## 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):

800 mg/m3

| CE                     | Chemical Name | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics                                                                                                                 |  |     |
|------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| WEL-TWA: 800 mg/m3     |               | WEL-STEL: ---                                                                                                                                                                        |  | --- |
| Monitoring procedures: |               | <ul style="list-style-type: none"><li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li><li>- Draeger - Hydrocarbons 2/a (81 03 581)</li><li>- Compur - KITA-187 S (551 174)</li></ul> |  |     |
| BMGV: ---              |               | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)                                                                                                                  |  |     |

| CE                             | Chemical Name | Hydrocarbons, C10, aromatics, <1% naphthalene                                                                                                                                        |  |     |
|--------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| WEL-TWA: 500 mg/m3 (Aromatics) |               | WEL-STEL: ---                                                                                                                                                                        |  | --- |
| Monitoring procedures:         |               | <ul style="list-style-type: none"><li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li><li>- Draeger - Hydrocarbons 2/a (81 03 581)</li><li>- Compur - KITA-187 S (551 174)</li></ul> |  |     |
| BMGV: ---                      |               | Other information: ---                                                                                                                                                               |  |     |

| CE                                                               | Chemical Name | Naphthalene                                                                                                                                                                                                                                                             |  |     |
|------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| WEL-TWA: 500 mg/m3 (Aromatics) (WEL-TWA), 10 ppm (50 mg/m3) (EU) |               | WEL-STEL: ---                                                                                                                                                                                                                                                           |  | --- |
| Monitoring procedures:                                           |               | <ul style="list-style-type: none"><li>- Compur - KITA-153 U(C) (551 182)</li><li>- NIOSH 5506 (POLYNUCLEAR AROMATIC HYDROCARBONS by HPLC) - 1998</li><li>- NIOSH 5515 (POLYNUCLEAR AROMATIC HYDROCARBONS by GC) - 1994</li><li>- OSHA 35 (Naphthalene) - 1982</li></ul> |  |     |

|                                       |                        |
|---------------------------------------|------------------------|
| BMGV: ---                             | Other information: --- |
| <b>Chemical Name</b> Maleic anhydride |                        |
| WEL-TWA: 1 mg/m3                      | WEL-STEL: 3 mg/m3      |
| Monitoring procedures: ---            |                        |
| BMGV: ---                             | Other information: Sen |

| Hydrocarbons, C10, aromatics, <1% naphthalene |                                            |                             |            |       |              |      |
|-----------------------------------------------|--------------------------------------------|-----------------------------|------------|-------|--------------|------|
| Area of application                           | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit         | Note |
| Consumer                                      | Human - dermal                             | Long term, systemic effects | DNEL       | 7,5   | mg/kg bw/day |      |
| Consumer                                      | Human - inhalation                         | Long term, systemic effects | DNEL       | 32    | mg/m3        |      |
| Consumer                                      | Human - oral                               | Long term, systemic effects | DNEL       | 7,5   | mg/kg bw/day |      |
| Workers / employees                           | Human - dermal                             | Long term, systemic effects | DNEL       | 12,5  | mg/kg bw/day |      |
| Workers / employees                           | Human - inhalation                         | Long term, systemic effects | DNEL       | 151   | mg/m3        |      |

| Naphthalene         |                                               |                             |            |        |                  |      |
|---------------------|-----------------------------------------------|-----------------------------|------------|--------|------------------|------|
| Area of application | Exposure route / Environmental compartment    | Effect on health            | Descriptor | Value  | Unit             | Note |
|                     | Environment - freshwater                      |                             | PNEC       | 2,4    | µg/l             |      |
|                     | Environment - marine                          |                             | PNEC       | 0,24   | µg/l             |      |
|                     | Environment - sewage treatment plant          |                             | PNEC       | 2,9    | mg/l             |      |
|                     | Environment - sediment, freshwater            |                             | PNEC       | 0,0672 | mg/kg dry weight |      |
|                     | Environment - sediment, marine                |                             | PNEC       | 0,0672 | mg/kg dry weight |      |
|                     | Environment - soil                            |                             | PNEC       | 0,0533 | mg/kg dry weight |      |
|                     | Environment - sporadic (intermittent) release |                             | PNEC       | 0,02   | mg/l             |      |
| Workers / employees | Human - dermal                                | Long term, systemic effects | DNEL       | 3,57   | mg/kg bw/day     |      |
| Workers / employees | Human - inhalation                            | Long term, systemic effects | DNEL       | 25     | mg/m3            |      |
| Workers / employees | Human - inhalation                            | Long term, local effects    | DNEL       | 25     | mg/m3            |      |

| Maleic anhydride    |                                                      |                  |            |          |       |      |
|---------------------|------------------------------------------------------|------------------|------------|----------|-------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value    | Unit  | Note |
|                     | Environment - freshwater                             |                  | PNEC       | 0,038    | mg/l  |      |
|                     | Environment - marine                                 |                  | PNEC       | 0,004281 | mg/l  |      |
|                     | Environment - water, sporadic (intermittent) release |                  | PNEC       | 0,4281   | mg/l  |      |
|                     | Environment - sewage treatment plant                 |                  | PNEC       | 44,6     | mg/l  |      |
|                     | Environment - sediment, freshwater                   |                  | PNEC       | 0,296    | mg/kg |      |
|                     | Environment - sediment, marine                       |                  | PNEC       | 0,006    | mg/kg |      |
|                     | Environment - soil                                   |                  | PNEC       | 0,037    | mg/l  |      |

|                     |                                  |                              |      |       |                       |  |
|---------------------|----------------------------------|------------------------------|------|-------|-----------------------|--|
|                     | Environment - oral (animal feed) |                              | PNEC | 6,67  | mg/kg                 |  |
| Workers / employees | Human - dermal                   | Short term, systemic effects | DNEL | 0,04  | mg/kg body weight/day |  |
| Workers / employees | Human - inhalation               | Short term, systemic effects | DNEL | 0,8   | mg/m3                 |  |
| Workers / employees | Human - dermal                   | Short term, local effects    | DNEL | 0,04  | mg/cm2                |  |
| Workers / employees | Human - inhalation               | Short term, local effects    | DNEL | 0,2   | mg/m3                 |  |
| Workers / employees | Human - dermal                   | Long term, systemic effects  | DNEL | 0,2   | mg/kg                 |  |
| Workers / employees | Human - inhalation               | Long term, systemic effects  | DNEL | 0,19  | mg/m3                 |  |
| Workers / employees | Human - dermal                   | Long term, local effects     | DNEL | 0,04  | mg/kg body weight/day |  |
| Workers / employees | Human - inhalation               | Long term, local effects     | DNEL | 0,081 | mg/m3                 |  |

- 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/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/EC). (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/EC). |

| 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, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/EC), (14) = The substance can cause sensitisation of the skin (2004/37/EC), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

## 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 ISO 16321-1).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN ISO 374).

If applicable

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Protective Viton® / fluoroelastomer gloves (EN ISO 374).  
 Protective nitrile gloves (EN ISO 374).  
 Minimum layer thickness in mm:  
 0,4  
 Permeation time (penetration time) in minutes:  
 > 480  
 Protective hand cream recommended.  
 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.

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

Respiratory protection:  
 If the workplace limit value 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:                                           | Liquid                                               |
| Colour:                                                   | Yellow                                               |
| Odour:                                                    | Characteristic                                       |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability:                                             | There is no information available on this parameter. |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| Flash point:                                              | >61 °C                                               |
| Auto-ignition temperature:                                | There is no information available on this parameter. |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:                                                       | n.a.                                                 |
| Kinematic viscosity:                                      | 1,8 mm <sup>2</sup> /s (40°C)                        |
| 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:                          | 0,815 g/ml (20°C)                                    |
| Relative vapour density:                                  | There is no information available on this parameter. |
| Particle characteristics:                                 | Does not apply to liquids.                           |

### 9.2 Other information

No information available at present.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

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## 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

## 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

## 10.6 Hazardous decomposition products

No decomposition when used as directed.

# SECTION 11: Toxicological information

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

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

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

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |       |          |                        |                                                          |                                                                                           |
|----------------------------------------------------------------------|----------|-------|----------|------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Toxicity / effect                                                    | Endpoint | Value | Unit     | Organism               | Test method                                              | Notes                                                                                     |
| Acute toxicity, by oral route:                                       | LD50     | >5000 | mg/kg    | Rat                    | OECD 401 (Acute Oral Toxicity)                           |                                                                                           |
| Acute toxicity, by dermal route:                                     | LD50     | >3160 | mg/kg    | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                         |                                                                                           |
| Acute toxicity, by inhalation:                                       | LC50     | >4951 | mg/m3/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)                     | Vapours                                                                                   |
| Skin corrosion/irritation:                                           |          |       |          | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)             | Not irritant, Analogous conclusion, Repeated exposure may cause skin dryness or cracking. |
| 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)                            | Not sensitising                                                                           |
| Germ cell mutagenicity:                                              |          |       |          | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)               | Negative                                                                                  |
| Germ cell mutagenicity:                                              |          |       |          |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative, Analogous conclusion                                                            |

|                                                                     |  |  |  |       |                                                                |                                                                   |
|---------------------------------------------------------------------|--|--|--|-------|----------------------------------------------------------------|-------------------------------------------------------------------|
| Germ cell mutagenicity:                                             |  |  |  | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative, Analogous conclusion                                    |
| Carcinogenicity:                                                    |  |  |  |       | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)   | Negative, Analogous conclusion                                    |
| Reproductive toxicity:                                              |  |  |  |       | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, Analogous conclusion                                    |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: |  |  |  | Rat   | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative, Analogous conclusion                                    |
| Aspiration hazard:                                                  |  |  |  |       |                                                                | Yes                                                               |
| Symptoms:                                                           |  |  |  |       |                                                                | unconsciousness, headaches, dizziness, mucous membrane irritation |

| Hydrocarbons, C10, aromatics, <1% naphthalene               |          |       |          |                        |                                                                                             |                                                       |
|-------------------------------------------------------------|----------|-------|----------|------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Toxicity / effect                                           | Endpoint | Value | Unit     | Organism               | Test method                                                                                 | Notes                                                 |
| Acute toxicity, by oral route:                              | LD50     | >5000 | mg/kg    | Rat                    | OECD 401 (Acute Oral Toxicity)                                                              |                                                       |
| Acute toxicity, by dermal route:                            | LD50     | >2000 | mg/kg    | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                                                            |                                                       |
| Acute toxicity, by inhalation:                              | LC50     | >4688 | mg/m3/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)                                                        | Vapours                                               |
| Skin corrosion/irritation:                                  |          |       |          | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)                                                | Not irritant                                          |
| Skin corrosion/irritation:                                  |          |       |          |                        |                                                                                             | Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:                              |          |       |          | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                                                   | Not irritant                                          |
| Respiratory or skin sensitisation:                          |          |       |          | Guinea pig             | OECD 406 (Skin Sensitisation)                                                               | Not sensitising                                       |
| Germ cell mutagenicity:                                     |          |       |          |                        | OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells) | Negative                                              |
| Germ cell mutagenicity:                                     |          |       |          | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                                                  | Negative, Analogous conclusion                        |
| Reproductive toxicity (Developmental toxicity):             |          |       |          | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)                                            | Negative, Analogous conclusionoral                    |
| Reproductive toxicity (Effects on fertility):               |          |       |          | Rat                    | OECD 416 (Two-generation Reproduction Toxicity Study)                                       | Negative, Analogous conclusioninhalat iv              |
| Specific target organ toxicity - single exposure (STOT-SE): |          |       |          |                        |                                                                                             | May cause drowsiness or dizziness., STOT SE 3, H336   |

|                                                                         |       |       |       |     |                                                                |                                                     |
|-------------------------------------------------------------------------|-------|-------|-------|-----|----------------------------------------------------------------|-----------------------------------------------------|
| Specific target organ toxicity - repeated exposure (STOT-RE):           |       |       |       |     | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative                                            |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | >0,38 | mg/l  | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)       | Vapours, Analogous conclusion13 weeks               |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 900   | mg/m3 | Rat | OECD 452 (Chronic Toxicity Studies)                            | Vapours, Analogous conclusion12 months              |
| Aspiration hazard:                                                      |       |       |       |     |                                                                | Yes                                                 |
| Symptoms:                                                               |       |       |       |     |                                                                | headaches, dizziness, fatigue, nausea and vomiting. |
| Symptoms:                                                               |       |       |       |     |                                                                | drowsiness, headaches, drowsiness, dizziness        |

| Naphthalene                                                             |          |       |         |            |                                                                |                   |
|-------------------------------------------------------------------------|----------|-------|---------|------------|----------------------------------------------------------------|-------------------|
| Toxicity / effect                                                       | Endpoint | Value | Unit    | Organism   | Test method                                                    | Notes             |
| Acute toxicity, by oral route:                                          | LD50     | 490   | mg/kg   | Rat        |                                                                |                   |
| Acute toxicity, by oral route:                                          | ATE      | 490   | mg/kg   |            |                                                                |                   |
| Acute toxicity, by dermal route:                                        | LD50     | >2500 | mg/kg   | Rat        |                                                                |                   |
| Acute toxicity, by inhalation:                                          | LD50     | >0,4  | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)                           | Vapours           |
| Respiratory or skin sensitisation:                                      |          |       |         | Guinea pig |                                                                | No (skin contact) |
| Reproductive toxicity:                                                  | NOAEL    | 120   | mg/kg   | Rabbit     | OECD 414 (Prenatal Developmental Toxicity Study)               | Female            |
| Reproductive toxicity:                                                  | LOAEL    | 50    | mg/kg   | Rat        | OECD 414 (Prenatal Developmental Toxicity Study)               | Female            |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | LOAEL    | 400   | mg/kg   | Rat        | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                   |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL    | 1000  | mg/kg   | Rat        | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)           |                   |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL    | 0,011 | mg/l    | Rat        | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)       | Vapours           |

|           |  |  |  |  |  |                                                                                                                                                                                                                                                  |
|-----------|--|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms: |  |  |  |  |  | lack of appetite, ataxia, breathing difficulties, unconsciousness, diarrhoea, cornea opacity, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting., sweating, Reddening, eyes, reddened |
|-----------|--|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Maleic anhydride                   |          |       |            |             |                                              |                                                                                                                                                                                                                                    |
|------------------------------------|----------|-------|------------|-------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity / effect                  | Endpoint | Value | Unit       | Organism    | Test method                                  | Notes                                                                                                                                                                                                                              |
| Acute toxicity, by oral route:     | LD50     | 1090  | mg/kg      | Rat         | OECD 401 (Acute Oral Toxicity)               |                                                                                                                                                                                                                                    |
| Acute toxicity, by dermal route:   | LD50     | 2620  | mg/kg      | Rabbit      |                                              |                                                                                                                                                                                                                                    |
| Acute toxicity, by inhalation:     | LC50     | >4,35 | mg/l/1h    | Mouse       |                                              |                                                                                                                                                                                                                                    |
| Skin corrosion/irritation:         |          |       |            | Human being |                                              | Corrosive                                                                                                                                                                                                                          |
| Skin corrosion/irritation:         |          |       |            | Rabbit      | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Corr. 1B                                                                                                                                                                                                                      |
| Serious eye damage/irritation:     |          |       |            | Rabbit      | OECD 405 (Acute Eye Irritation/Corrosion)    | Corrosive, Risk of serious damage to eyes.                                                                                                                                                                                         |
| Respiratory or skin sensitisation: |          |       |            | Guinea pig  | OECD 406 (Skin Sensitisation)                | Sensitising (skin contact)                                                                                                                                                                                                         |
| Respiratory or skin sensitisation: |          |       |            | Rat         |                                              | Sensitising (inhalation)                                                                                                                                                                                                           |
| Germ cell mutagenicity:            |          |       |            |             | bacterial                                    | References, Negative                                                                                                                                                                                                               |
| Carcinogenicity:                   | NOAEL    | >100  | mg/kg bw/d | Rat         |                                              | oral                                                                                                                                                                                                                               |
| Reproductive toxicity:             | NOAEC    | 650   | mg/kg bw/d | Rat         |                                              |                                                                                                                                                                                                                                    |
| Symptoms:                          |          |       |            |             |                                              | asthmatic symptoms, breathing difficulties, respiratory distress, burning of the membranes of the nose and throat, blisters, coughing, headaches, gastrointestinal disturbances, mucous membrane irritation, watering eyes, nausea |

## 11.2. Information on other hazards

| Hybrid Additive                  |          |       |      |          |             |                                                                       |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| 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. |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |       |      |          |             |                                                       |
|----------------------------------------------------------------------|----------|-------|------|----------|-------------|-------------------------------------------------------|
| Toxicity / effect                                                    | Endpoint | Value | Unit | Organism | Test method | Notes                                                 |
| Other information:                                                   |          |       |      |          |             | Repeated exposure may cause skin dryness or cracking. |

## SECTION 12: Ecological information

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

| Hybrid Additive                          |          |      |       |      |          |             |                                                                       |
|------------------------------------------|----------|------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes                                                                 |
| 12.1. Toxicity to fish:                  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a.                                                                |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |             | n.d.a.                                                                |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | Isolate as much as possible with an oil separator.                    |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a.                                                                |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a.                                                                |
| 12.6. 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:                       | DOC      |      |       |      |          |             | DOC-elimination degree (complexing organic substance) >= 80%/28d: No  |
| Other information:                       | AOX      |      | 0     | %    |          |             | According to the recipe, contains no AOX.                             |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |      |       |      |                     |                                                  |       |
|----------------------------------------------------------------------|----------|------|-------|------|---------------------|--------------------------------------------------|-------|
| Toxicity / effect                                                    | Endpoint | Time | Value | Unit | Organism            | Test method                                      | Notes |
| 12.1. Toxicity to fish:                                              | NOELR    | 28d  | 0,101 | mg/l | Oncorhynchus mykiss |                                                  |       |
| 12.1. Toxicity to fish:                                              | LL50     | 96h  | >1000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to daphnia:                                           | EL50     | 48h  | >1000 | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |

|                                          |       |     |         |      |                                 |                                                                    |                                      |
|------------------------------------------|-------|-----|---------|------|---------------------------------|--------------------------------------------------------------------|--------------------------------------|
| 12.1. Toxicity to daphnia:               | NOELR | 21d | 0,176   | mg/l | Daphnia magna                   |                                                                    |                                      |
| 12.1. Toxicity to algae:                 | EL50  | 72h | >1000   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                      |
| 12.2. Persistence and degradability:     |       | 28d | 80-89,8 | %    | activated sludge                | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable                |
| 12.3. Bioaccumulative potential:         | BCF   |     | 10-2500 |      |                                 |                                                                    | High                                 |
| 12.5. Results of PBT and vPvB assessment |       |     |         |      |                                 |                                                                    | No PBT substance, No vPvB substance  |
| 12.6. Endocrine disrupting properties:   |       |     |         |      |                                 |                                                                    | No                                   |
| Other organisms:                         | EL50  | 48h | >1000   | mg/l | Tetrahymena pyriformis          |                                                                    |                                      |
| Water solubility:                        |       |     |         |      |                                 |                                                                    | Product floats on the water surface. |

| Hydrocarbons, C10, aromatics, <1% naphthalene |          |      |       |      |                                 |                                                                    |                                                   |
|-----------------------------------------------|----------|------|-------|------|---------------------------------|--------------------------------------------------------------------|---------------------------------------------------|
| Toxicity / effect                             | Endpoint | Time | Value | Unit | Organism                        | Test method                                                        | Notes                                             |
| 12.1. Toxicity to fish:                       | LC50     | 96h  | 2-5   | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |                                                   |
| 12.1. Toxicity to fish:                       | LL50     | 96h  | 2 - 5 | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |                                                   |
| 12.1. Toxicity to fish:                       | LL50     | 96h  | 2-5   | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               | Analogous conclusion                              |
| 12.1. Toxicity to daphnia:                    | EC50     | 48h  | 3 -10 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion                              |
| 12.1. Toxicity to algae:                      | NOELR    | 72h  | 2,5   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                                   |
| 12.1. Toxicity to algae:                      | EC50     | 72h  | >1 -3 | mg/l | Raphidocelis subcapitata        | OECD 201 (Alga, Growth Inhibition Test)                            |                                                   |
| 12.2. Persistence and degradability:          |          | 28d  | 49,6  | %    |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily but inherent biodegradable., Inherent |
| 12.3. Bioaccumulative potential:              | BCF      |      | <100  |      |                                 |                                                                    | Low                                               |
| 12.5. Results of PBT and vPvB assessment      |          |      |       |      |                                 |                                                                    | No PBT substance, No vPvB substance               |
| Water solubility:                             |          |      |       |      |                                 |                                                                    | Insoluble                                         |

| Naphthalene             |          |      |       |      |                     |             |                                          |
|-------------------------|----------|------|-------|------|---------------------|-------------|------------------------------------------|
| Toxicity / effect       | Endpoint | Time | Value | Unit | Organism            | Test method | Notes                                    |
| 12.1. Toxicity to fish: | LC50     | 96h  | 1,99  | mg/l | Pimephales promelas |             | Does not conform with EU classification. |
| 12.1. Toxicity to fish: | LC50     | 96h  | 0,51  | mg/l |                     |             |                                          |
| 12.1. Toxicity to fish: | LC50     | 96h  | 0,11  | mg/l | Oncorhynchus mykiss |             |                                          |

|                                      |           |      |          |      |                           |  |                           |
|--------------------------------------|-----------|------|----------|------|---------------------------|--|---------------------------|
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | >60d | 0,6      | mg/l | Daphnia pulex             |  |                           |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 1,6-24,1 | mg/l | Daphnia magna             |  |                           |
| 12.1. Toxicity to algae:             | LC50      | 4h   | 2,96     | mg/l | Selenastrum capricornutum |  |                           |
| 12.1. Toxicity to algae:             | ErC50     | 72h  | 0,4      | mg/l | Skeletonema costatum      |  |                           |
| 12.2. Persistence and degradability: |           | 28d  | 2        | %    |                           |  | Not readily biodegradable |
| 12.3. Bioaccumulative potential:     | BCF       | 28d  | 40-300   |      |                           |  | Lowfish                   |
| 12.4. Mobility in soil:              | Koc       |      | 817      |      |                           |  |                           |
| 12.4. Mobility in soil:              | Koc       |      | 240-1300 |      |                           |  |                           |
| Other information:                   | BOD5      |      | 0        | %    |                           |  |                           |
| Other information:                   | COD       |      | 22       | %    |                           |  |                           |
| Other information:                   | Log Pow   |      | 3,3      |      |                           |  |                           |

| Maleic anhydride                         |           |      |       |      |                                 |                                                                    |                                     |
|------------------------------------------|-----------|------|-------|------|---------------------------------|--------------------------------------------------------------------|-------------------------------------|
| Toxicity / effect                        | Endpoint  | Time | Value | Unit | Organism                        | Test method                                                        | Notes                               |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 75    | mg/l | Oncorhynchus mykiss             |                                                                    | EPA-660/3-75-009                    |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 75    | mg/l | Lepomis macrochirus             |                                                                    | EPA-660/3-75-009                    |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 10    | mg/l | Daphnia magna                   |                                                                    |                                     |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 37,9  | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                     |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 65,78 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                     |
| 12.2. Persistence and degradability:     |           | 7d   | 98    | %    |                                 | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Hydrolysis                          |
| 12.2. Persistence and degradability:     |           | 28d  | > 61  | %    |                                 | OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)    | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | -2,61 |      |                                 |                                                                    | Not to be expected                  |
| 12.4. Mobility in soil:                  | Koc       |      | 1     |      |                                 |                                                                    | Not to be expected                  |
| 12.5. Results of PBT and vPvB assessment |           |      |       |      |                                 |                                                                    | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC10      | 18h  | 44,6  | mg/l | Pseudomonas putida              | DIN 38412 T.8                                                      | References                          |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.

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 07 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

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

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

Tunnel restriction code: Not applicable

Classification code: Not applicable

LQ: Not applicable

Transport category: Not applicable

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

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

Marine Pollutant: Not applicable

EmS: Not applicable

#### Transport by air (IATA)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable

### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## 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 maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII

Naphthalene

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

91,54 %

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
Revision date / version: 25.08.2026 / 0033  
Replacing version dated / version: 15.05.2026 / 0032  
Valid from: 25.08.2026  
PDF print date: 25.08.2026  
Hybrid Additive

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: 2, 9  
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                             |
|-----------------------------------------------------------------------|----------------------------------------------------|
| Asp. Tox. 1, H304                                                     | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412                                               | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.  
H372 Causes damage to organs through prolonged or repeated exposure by inhalation.  
H317 May cause an allergic skin reaction.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH071 Corrosive to the respiratory tract.

Asp. Tox. — Aspiration hazard  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
Acute Tox. — Acute toxicity - oral  
Carc. — Carcinogenicity  
Aquatic Acute — Hazardous to the aquatic environment - acute  
Skin Corr. — Skin corrosion  
Eye Dam. — Serious eye damage  
Resp. Sens. — Respiratory sensitization  
Skin Sens. — Skin sensitization  
STOT RE — Specific target organ toxicity - repeated exposure

### 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:**

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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Hybrid Additive

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

BOD Biochemical Oxygen Demand

BOD5 Biochemical Oxygen Demand during 5 days

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

COD Chemical Oxygen Demand

DIN Deutsche Institut für Normung (= German Institute for Standardisation)

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

EmS Emergency Schedules

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 (= Latin expression that is used in English to mean "and all the rest")

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. general

GESTIS Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung (= Hazardous Substances Information System of the German Social Accident Insurance)

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

ICx (x = 0, 5, 10, 50, 100) Inhibitory concentration for x % inhibition

IFA Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (= Institute for Occupational Safety and Health of the German Social Accident Insurance)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

ISO International Organization for Standardization

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LOEC, LOEL Lowest Observed Effect Concentration/Level

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

MAK      Maximale Arbeitsplatzkonzentrationswerte (= Maximum workplace concentration values (Germany, Suisse))

MARPOL      International Convention for the Prevention of Marine Pollution from Ships

Meth.      Method

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

Min., min.      Minute or minimum

n.a.      not applicable

n.av.      not available

n.c.      not checked

n.d.a.      no data available

N.O.S., n.o.s.      not otherwise specified

NIOSH      National Institute for Occupational Safety and Health (USA)

NLP      No-longer-Polymer

NOAEC, NOAEL, NOAL      No Observed Adverse Effect Concentration/Level

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

PMT      Persistent, mobile and toxic

PNEC      Predicted No Effect Concentration

ppb      parts per billion

ppm      parts per million

PVC      Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No.      1/6/7/8/9xx-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

ThOD      Theoretical Oxygen Demand

TOC      Total organic carbon

UFI      Unique Formula Identifier

UN RTDG      United Nations Recommendations on the Transport of Dangerous Goods

UV      ultraviolet

VOC      Volatile organic compounds

vPvB      Very persistent and very bioaccumulative

vPvM      Very persistent and very mobile

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