

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## BYK-P 104

Version: 7.0  
SDB\_IS

Revision Date: 22.01.2026

Date of last issue: 11.08.2023  
Print Date: 27.01.2026

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

#### 1.1 Product identifier

Trade name : BYK-P 104  
UFI : P4K7-N06T-S00A-VUDC  
Product code : 00000000000101126

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

Use of the Substance/Mixture : Wetting & Dispersing Additive

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

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-0  
Telefax : +49 281 65735  
  
Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone number

Europe +44 1235 239670  
Middle East/Africa +44 1235 239671  
Americas +1 215 207 0061  
East/South East Asia +65 3158 1074  
(Local India: 000 800 100 7479)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|                                                                                  |                                                                          |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Flammable liquids, Category 3                                                    | H226: Flammable liquid and vapour.                                       |
| Skin sensitisation, Category 1                                                   | H317: May cause an allergic skin reaction.                               |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation.                                  |
| Specific target organ toxicity - repeated exposure, Category 2                   | H373: May cause damage to organs through prolonged or repeated exposure. |
| Long-term (chronic) aquatic hazard, Category 3                                   | H412: Harmful to aquatic life with long lasting effects.                 |

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

|                          |   |                                                                                   |                                                                                                   |                                                                                    |
|--------------------------|---|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Hazard pictograms        | : |  |                  |  |
| Signal word              | : | Warning                                                                           |                                                                                                   |                                                                                    |
| Hazard statements        | : | H226                                                                              | Flammable liquid and vapour.                                                                      |                                                                                    |
|                          |   | H317                                                                              | May cause an allergic skin reaction.                                                              |                                                                                    |
|                          |   | H335                                                                              | May cause respiratory irritation.                                                                 |                                                                                    |
|                          |   | H373                                                                              | May cause damage to organs through prolonged or repeated exposure.                                |                                                                                    |
|                          |   | H412                                                                              | Harmful to aquatic life with long lasting effects.                                                |                                                                                    |
| Precautionary statements | : | <b>Prevention:</b>                                                                |                                                                                                   |                                                                                    |
|                          |   | P210                                                                              | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.    |                                                                                    |
|                          |   | P260                                                                              | Do not breathe the mist or vapours.                                                               |                                                                                    |
|                          |   | P273                                                                              | Avoid release to the environment.                                                                 |                                                                                    |
|                          |   | P280                                                                              | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |                                                                                    |
|                          |   | <b>Response:</b>                                                                  |                                                                                                   |                                                                                    |
|                          |   | P303 + P361 + P353                                                                | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.      |                                                                                    |
|                          |   | P370 + P378                                                                       | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.              |                                                                                    |

#### Hazardous components which must be listed on the label:

- 85711-46-2 Fatty acids, C14-18 and C16-18-unsatd., maleated
- 1330-20-7 Xylene, mixture of isomers
- 108-31-6 maleic anhydride

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Solution of a lower molecular weight unsaturated polycarboxylic acid polymer

#### Components

| Chemical name                                    | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                                                                               | Concentration<br>(% w/w) |
|--------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Fatty acids, C14-18 and C16-18-unsatd., maleated | 85711-46-2<br>01-2119976378-19-0000                   | Skin Irrit. 2; H315<br>Skin Sens. 1; H317                                                                                                                                                                                    | >= 50 - <= 100           |
| Xylene, mixture of isomers                       | 1330-20-7<br>01-2119488216-32                         | Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Aquatic Chronic 3;<br>H412 | >= 30 - < 50             |
| ethylbenzene                                     | 100-41-4<br>202-849-4                                 | Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>STOT RE 2; H373<br>(hearing organs)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412                                                                                           | >= 12,5 - < 20           |
| 2,6-dimethylheptan-4-one                         | 108-83-8<br>203-620-1<br>01-2119474441-41             | Flam. Liq. 3; H226<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration<br>limit<br>STOT SE 3; H335<br>>= 10 %                                                                                           | >= 3 - < 5               |
| maleic anhydride                                 | 108-31-6<br>203-571-6<br>01-2119472428-31             | 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<br>(Respiratory system)<br>EUH071                                                             | >= 0,5 - < 1             |

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|  |  |                                                                   |  |
|--|--|-------------------------------------------------------------------|--|
|  |  | specific concentration limit<br>Skin Sens. 1A; H317<br>>= 0,001 % |  |
|  |  | Acute toxicity estimate                                           |  |
|  |  | Acute oral toxicity:<br>1.090 mg/kg                               |  |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

- Symptoms : No information available.
- Risks : May cause an allergic skin reaction.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

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

- Treatment : No information available.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.

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Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

- Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components                 | CAS-No.                                                                                            | Value type (Form of exposure) | Control parameters               | Basis      |
|----------------------------|----------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|------------|
| Xylene, mixture of isomers | 1330-20-7                                                                                          | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                            |                                                                                                    | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
| ethylbenzene               | 100-41-4                                                                                           | TWA                           | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                            |                                                                                                    | STEL                          | 200 ppm<br>884 mg/m <sup>3</sup> | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name             | End Use   | Exposure routes | Potential health effects                                             | Value                  |
|----------------------------|-----------|-----------------|----------------------------------------------------------------------|------------------------|
| Xylene, mixture of isomers | Workers   | Inhalation      | Long-term systemic effects                                           | 221 mg/m <sup>3</sup>  |
|                            | Workers   | Inhalation      | Acute local effects                                                  | 442 mg/m <sup>3</sup>  |
|                            | Workers   | Dermal          | Long-term systemic effects                                           | 212 mg/kg              |
|                            | Consumers | Inhalation      | Long-term systemic effects                                           | 65,3 mg/m <sup>3</sup> |
|                            | Consumers | Dermal          | Long-term systemic effects                                           | 125 mg/kg              |
|                            | Consumers | Oral            | Long-term systemic effects                                           | 1,5 mg/kg              |
|                            | Consumers | Inhalation      | Acute local effects                                                  | 260 mg/m <sup>3</sup>  |
| 2,6-dimethylheptan-4-one   | Workers   | Inhalation      | Acute systemic effects, Acute local effects, Long-term local effects | 290 mg/m <sup>3</sup>  |
|                            | Workers   | Skin contact    | Long-term systemic effects                                           | 80 mg/kg               |
|                            | Workers   | Inhalation      | Long-term systemic effects                                           | 479 mg/m <sup>3</sup>  |
|                            | Consumers | Inhalation      | Acute systemic effects, Acute local effects, Long-term local effects | 145 mg/m <sup>3</sup>  |

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|                  |           |              |                                                     |                         |
|------------------|-----------|--------------|-----------------------------------------------------|-------------------------|
|                  | Consumers | Skin contact | Long-term systemic effects                          | 28,5 mg/kg              |
|                  | Consumers | Inhalation   | Long-term systemic effects                          | 171 mg/kg               |
|                  | Consumers | Ingestion    | Long-term systemic effects                          | 7,14 mg/kg              |
| maleic anhydride | Workers   | Inhalation   | Long-term systemic effects, Long-term local effects | 0,081 mg/m <sup>3</sup> |
|                  | Workers   | Inhalation   | Systemic effects, Acute effects, Local effects      | 0,2 mg/m <sup>3</sup>   |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name             | Environmental Compartment | Value        |
|----------------------------|---------------------------|--------------|
| Xylene, mixture of isomers | Fresh water               | 0,327 mg/l   |
|                            | Marine water              | 0,327 mg/l   |
|                            | Fresh water sediment      | 12,46 mg/kg  |
|                            | Marine sediment           | 12,46 mg/kg  |
|                            | Soil                      | 2,31 mg/kg   |
|                            | Sewage treatment plant    | 6,58 mg/l    |
| 2,6-dimethylheptan-4-one   | Intermittent releases     | 0,327 mg/l   |
|                            | Fresh water               | 0,03 mg/l    |
|                            | Marine water              | 0,003 mg/l   |
|                            | Intermittent releases     | 0,3 mg/l     |
|                            | Fresh water sediment      | 0,46 mg/kg   |
|                            | Marine sediment           | 0,046 mg/kg  |
| maleic anhydride           | Sewage treatment plant    | 2,55 mg/l    |
|                            | Soil                      | 0,0746 mg/kg |
|                            | Fresh water               | 0,038 mg/l   |
|                            | Marine water              | 0,0038 mg/l  |
|                            | Intermittent releases     | 0,379 mg/l   |
|                            | Soil                      | 0,037 mg/kg  |
|                            | Fresh water sediment      | 0,296 mg/kg  |
|                            | Marine sediment           | 0,0296 mg/kg |
|                            | Sewage treatment plant    | 44,6 mg/l    |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

### Hand protection

Material : Fluorinated rubber  
Break through time : > 480 min  
Glove thickness : >= 0,4 mm

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : yellow

Odour : aromatic

Odour Threshold : No data available

Melting point/ range : < 5 °C  
Method: derived

Initial boiling point : 137,00 °C  
Method: derived

Upper explosion limit / Upper flammability limit : 7,60 %(V)

Lower explosion limit / Lower flammability limit : 0,80 %(V)

Flash point : 28,00 °C  
Method: 48 (Abel-Pensky) DIN 51755

Auto-ignition temperature : > 200 °C  
Method: DIN 51794

Decomposition temperature : No data available

pH : 3 (20 °C)  
Concentration: 1 %  
Method: Universal pH-value indicator

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 40 mm<sup>2</sup>/s (40,00 °C)

Solubility(ies)

Water solubility : immiscible

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Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Vapour pressure : 9 hPa (20 °C)  
Method: derived

Relative density : No data available

Density : 0,9500 g/cm<sup>3</sup> (20,00 °C)  
Method: 4 (20°C oscillating U-tube)

Bulk density : Not applicable

Relative vapour density : No data available

### 9.2 Other information

Flammability (liquids) : Sustains combustion

Evaporation rate : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

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

##### Acute toxicity

Not classified due to lack of data.

##### Product:

- Acute oral toxicity : Remarks: No data available
- Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

##### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

- Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

##### **Xylene, mixture of isomers:**

- Acute oral toxicity : LD50 (Rat): 4.300 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  
GLP: no
- Acute dermal toxicity : LD50 (Rabbit): > 4.200 mg/kg  
GLP: No information available.

##### **2,6-dimethylheptan-4-one:**

- Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes
- Acute inhalation toxicity : LC50 (Rat): > 14 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: no
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

##### **maleic anhydride:**

- Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg

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Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2.620 mg/kg  
GLP: No information available.

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

Remarks : Based on available data, the classification criteria are not met.

Remarks : May cause skin irritation and/or dermatitis.

#### Components:

##### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Species : EPISKIN human epidermis skin constructs  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 439  
Result : Irritating to skin.  
GLP : yes

##### **2,6-dimethylheptan-4-one:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

##### **maleic anhydride:**

Species : Rabbit  
Method : No information available.  
Result : Corrosive to skin  
GLP : no

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation

Remarks : Vapours may cause irritation to the eyes, respiratory system  
and the skin.

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### Components:

#### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

#### **2,6-dimethylheptan-4-one:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : no

#### **maleic anhydride:**

Species : Rabbit  
Result : Corrosive to eyes  
GLP : yes

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified due to lack of data.

### Product:

Remarks : Causes sensitisation.

### Components:

#### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Species : Mouse  
Assessment : May cause sensitisation by skin contact.  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.  
GLP : yes

#### **2,6-dimethylheptan-4-one:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

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### maleic anhydride:

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Causes sensitisation.  
GLP : yes

### Germ cell mutagenicity

Not classified due to lack of data.

### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Components:

#### Fatty acids, C14-18 and C16-18-unsatd., maleated:

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

### Carcinogenicity

Not classified due to lack of data.

### Product:

Remarks : No data available

### Reproductive toxicity

Not classified due to lack of data.

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### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### **STOT - single exposure**

May cause respiratory irritation.

### **Product:**

Remarks : No data available

### **STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

### **Product:**

Remarks : No data available

### **Repeated dose toxicity**

### **Product:**

Remarks : No data available

### **Components:**

#### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Species : Rat, male and female  
NOAEL : 1.000 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 422  
GLP : yes  
Target Organs : Stomach

### **Aspiration toxicity**

Not classified due to lack of data.

### **Product:**

No data available

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### Further information

#### Product:

Remarks : Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

#### Components:

##### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Toxicity to fish : LL50 (Leuciscus idus (Golden orfe)): > 150 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: DIN 38412  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
GLP: yes

##### **Xylene, mixture of isomers:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 24 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l  
Exposure time: 72 h  
Test Type: static test

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Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,17 mg/l  
Exposure time: 7 d  
Species: Daphnia sp. (water flea)

NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Daphnia sp. (water flea)

### 2,6-dimethylheptan-4-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 30 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 37,2 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : (Pseudokirchneriella subcapitata (green algae)): 46,9 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

### maleic anhydride:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42,81 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata): 74,35 mg/l

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plants  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other : NOEC: 10 mg/l  
aquatic invertebrates  
(Chronic toxicity) Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
GLP: no

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

#### Components:

##### **Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301  
GLP: yes

##### **Xylene, mixture of isomers:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

##### **2,6-dimethylheptan-4-one:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D  
GLP: no

##### **maleic anhydride:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **Xylene, mixture of isomers:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 56 d  
Bioconcentration factor (BCF): 25,9  
GLP: no

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Partition coefficient: n-  
octanol/water : Pow: 3,2 (20 °C)  
pH: 7

### maleic anhydride:

Partition coefficient: n-  
octanol/water : log Pow: -2,61 (19,8 °C)  
pH: 4 - 9  
Method: OECD Test Guideline 107  
GLP: yes

## 12.4 Mobility in soil

### Components:

#### maleic anhydride:

Distribution among  
environmental compartments : Koc: 42, log Koc: 1,63

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological  
information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.

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Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 1993  
IMDG : UN 1993  
IATA : UN 1993

#### 14.2 UN proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.  
(Xylene, Diisobutyl ketone)  
IMDG : FLAMMABLE LIQUID, N.O.S.  
(XYLENE, Diisobutyl ketone)  
IATA : Flammable liquid, n.o.s.  
(Xylene, Diisobutyl ketone)

#### 14.3 Transport hazard class(es)

ADR : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

ADR  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E  
IMDG  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Remarks : IMDG Code segregation group - none

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

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### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3  
  
Number on list 5: benzene  
  
Number on list 72: benzene  
  
Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

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### 15.2 Chemical safety assessment

Not applicable

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## SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

|        |                                                                              |
|--------|------------------------------------------------------------------------------|
| H225   | : Highly flammable liquid and vapour.                                        |
| H226   | : Flammable liquid and vapour.                                               |
| H302   | : Harmful if swallowed.                                                      |
| H304   | : May be fatal if swallowed and enters airways.                              |
| H312   | : Harmful in contact with skin.                                              |
| H314   | : Causes severe skin burns and eye damage.                                   |
| H315   | : Causes skin irritation.                                                    |
| H317   | : May cause an allergic skin reaction.                                       |
| H318   | : Causes serious eye damage.                                                 |
| H319   | : Causes serious eye irritation.                                             |
| H332   | : Harmful if inhaled.                                                        |
| H334   | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | : May cause respiratory irritation.                                          |
| H372   | : Causes damage to organs through prolonged or repeated exposure if inhaled. |
| H373   | : May cause damage to organs through prolonged or repeated exposure.         |
| H412   | : Harmful to aquatic life with long lasting effects.                         |
| EUH071 | : Corrosive to the respiratory tract.                                        |

### Full text of other abbreviations

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Acute Tox.        | : Acute toxicity                                                                                                     |
| Aquatic Chronic   | : Long-term (chronic) aquatic hazard                                                                                 |
| Asp. Tox.         | : Aspiration hazard                                                                                                  |
| Eye Dam.          | : Serious eye damage                                                                                                 |
| Eye Irrit.        | : Eye irritation                                                                                                     |
| Flam. Liq.        | : Flammable liquids                                                                                                  |
| Resp. Sens.       | : Respiratory sensitisation                                                                                          |
| Skin Corr.        | : Skin corrosion                                                                                                     |
| Skin Irrit.       | : Skin irritation                                                                                                    |
| Skin Sens.        | : Skin sensitisation                                                                                                 |
| STOT RE           | : Specific target organ toxicity - repeated exposure                                                                 |
| STOT SE           | : Specific target organ toxicity - single exposure                                                                   |
| 2000/39/EC        | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2000/39/EC / TWA  | : Limit Value - eight hours                                                                                          |
| 2000/39/EC / STEL | : Short term exposure limit                                                                                          |

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|              |      |
|--------------|------|
| Flam. Liq. 3 | H226 |
| Skin Sens. 1 | H317 |
| STOT SE 3    | H335 |
| STOT RE 2    | H373 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

|                          |             |                           |
|--------------------------|-------------|---------------------------|
| <b>Aquatic Chronic 3</b> | <b>H412</b> | <b>Calculation method</b> |
|--------------------------|-------------|---------------------------|

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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## Annex: Exposure Scenarios

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