

# SAFETY DATA SHEET

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



## DISPERBYK-163 TF

Version: 9.0

SDB\_CH

Revision Date: 23.01.2026

Date of last issue: 05.09.2025

Print Date: 27.01.2026

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

#### 1.1 Product identifier

Trade name : DISPERBYK-163 TF  
UFI : ARY8-R0UG-C00R-W8E4  
Product code : 000000000000132977

#### 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

+44 1235 239670

### 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 irritation, Category 2                                                          | H315: Causes skin irritation.                                            |
| Eye irritation, Category 2                                                           | H319: Causes serious eye irritation.                                     |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.                                 |
| 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        | : | <div><div>H226</div><div>H315</div><div>H319</div><div>H335</div><div>H336</div><div>H373</div><div>H412</div></div> <div><div>Flammable liquid and vapour.</div><div>Causes skin irritation.</div><div>Causes serious eye irritation.</div><div>May cause respiratory irritation.</div><div>May cause drowsiness or dizziness.</div><div>May cause damage to organs through prolonged or repeated exposure.</div><div>Harmful to aquatic life with long lasting effects.</div></div>                                                                                                                                                                                      |
| Precautionary statements | : | <div><div><b>Prevention:</b></div><div><div>P210</div><div>P260</div><div>P264</div><div>P273</div><div>P280</div></div><div><div>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</div><div>Do not breathe mist or vapours.</div><div>Wash skin thoroughly after handling.</div><div>Avoid release to the environment.</div><div>Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</div></div></div> <div><div><b>Response:</b></div><div><div>P370 + P378</div><div>In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</div></div></div> |

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

- 1330-20-7 Xylene, mixture of isomers
- 108-65-6 2-methoxy-1-methylethyl acetate

### 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 high molecular weight block copolymer with pigment affinic groups

##### Components

| Chemical name                   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                                                                               | Concentration<br>(% w/w) |
|---------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 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 | >= 20 - < 25             |
| 2-methoxy-1-methylethyl acetate | 108-65-6<br>203-603-9<br>01-2119475791-29             | STOT SE 3; H336<br>Flam. Liq. 3; H226                                                                                                                                                                                        | >= 12,5 - < 20           |
| n-butyl acetate                 | 123-86-4<br>204-658-1<br>01-2119485493-29             | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>EUH066                                                                                                                                               | >= 10 - < 12,5           |
| 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                                                                                           | >= 7 - < 10              |

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 : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical  
advice.

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- |                         |   |                                                                                                                                                                                                                       |
|-------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                |
| In case of eye contact  | : | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                           |
| If swallowed            | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

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

- |          |   |                                                                                                                                                                                                            |
|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | : | No information available.                                                                                                                                                                                  |
| Risks    | : | Causes skin irritation.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>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<br>Carbon dioxide (CO <sub>2</sub> )<br>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<br>Nitrogen oxides (NO <sub>x</sub> )                       |

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### 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 : 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.

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## 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.

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- Advice on protection against fire and explosion : Dispose of rinse water in accordance with local and national regulations.  
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

## 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/m3  | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                            |                               |                      |            |
|                            |                                                                                                                                                                                                                                                                                                                                                                                               | STEL                          | 100 ppm<br>442 mg/m3 | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                                                                                            |                               |                      |            |
|                            |                                                                                                                                                                                                                                                                                                                                                                                               | TWA                           | 50 ppm<br>220 mg/m3  | CH SUVA    |
|                            | Further information: Toxic by skin resorption possible; Substances, which are easily absorbed through the skin, can give by additional skin resorption a substantial higher risk compared to only inhalation by the airways., National Institute for Occupational Safety and Health, National Institute of Research and Safety for the prevention of work accidents and occupational diseases |                               |                      |            |
|                            |                                                                                                                                                                                                                                                                                                                                                                                               | STEL                          | 100 ppm<br>440 mg/m3 | CH SUVA    |
|                            | Further information: Toxic by skin resorption possible; Substances, which are easily absorbed through the skin, can give by additional skin resorption a substantial higher risk compared to only inhalation by the airways., National Institute for Occupational Safety and Health, National Institute of Research                                                                           |                               |                      |            |

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|                                 |                                                                                                                                                                                                                                                                                                                   |      |                      |                  |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|------------------|
|                                 | and Safety for the prevention of work accidents and occupational diseases                                                                                                                                                                                                                                         |      |                      |                  |
| 2-methoxy-1-methylethyl acetate | 108-65-6                                                                                                                                                                                                                                                                                                          | TWA  | 50 ppm<br>275 mg/m3  | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | STEL | 100 ppm<br>550 mg/m3 | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | TWA  | 50 ppm<br>275 mg/m3  | CH SUVA          |
|                                 | Further information: Harm to the unborn child is not to be expected when the OEL-value is respected                                                                                                                                                                                                               |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | STEL | 50 ppm<br>275 mg/m3  | CH SUVA          |
|                                 | Further information: Harm to the unborn child is not to be expected when the OEL-value is respected                                                                                                                                                                                                               |      |                      |                  |
| n-butyl acetate                 | 123-86-4                                                                                                                                                                                                                                                                                                          | TWA  | 50 ppm<br>240 mg/m3  | CH SUVA          |
|                                 | Further information: National Institute for Occupational Safety and Health, National Institute of Research and Safety for the prevention of work accidents and occupational diseases, Harm to the unborn child is not to be expected when the OEL-value is respected                                              |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | STEL | 150 ppm<br>720 mg/m3 | CH SUVA          |
|                                 | Further information: National Institute for Occupational Safety and Health, National Institute of Research and Safety for the prevention of work accidents and occupational diseases, Harm to the unborn child is not to be expected when the OEL-value is respected                                              |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | STEL | 150 ppm<br>723 mg/m3 | 2019/1831/E<br>U |
|                                 | Further information: Indicative                                                                                                                                                                                                                                                                                   |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | TWA  | 50 ppm<br>241 mg/m3  | 2019/1831/E<br>U |
|                                 | Further information: Indicative                                                                                                                                                                                                                                                                                   |      |                      |                  |
| ethylbenzene                    | 100-41-4                                                                                                                                                                                                                                                                                                          | TWA  | 100 ppm<br>442 mg/m3 | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | STEL | 200 ppm<br>884 mg/m3 | 2000/39/EC       |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                                                                                                                                |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | TWA  | 50 ppm<br>220 mg/m3  | CH SUVA          |
|                                 | Further information: noise amplifying ototoxicity, Toxic by skin resorption possible; Substances, which are easily absorbed through the skin, can give by additional skin resorption a substantial higher risk compared to only inhalation by the airways., National Institute for Occupational Safety and Health |      |                      |                  |
|                                 |                                                                                                                                                                                                                                                                                                                   | STEL | 50 ppm<br>220 mg/m3  | CH SUVA          |

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Further information: noise amplifying ototoxicity, Toxic by skin resorption possible; Substances, which are easily absorbed through the skin, can give by additional skin resorption a substantial higher risk compared to only inhalation by the airways., National Institute for Occupational Safety and Health

### Biological occupational exposure limits

| Substance name             | CAS-No.   | Control parameters                                                   | Sampling time                                     | Basis  |
|----------------------------|-----------|----------------------------------------------------------------------|---------------------------------------------------|--------|
| Xylene, mixture of isomers | 1330-20-7 | methyl hippuric acids: 2 g/l (Urine)                                 | Immediately after exposure or after working hours | CH BAT |
| ethylbenzene               | 100-41-4  | mandelic acid and phenyl glyoxylic acid: 600 mg/g creatinine (Urine) | Immediately after exposure or after working hours | CH BAT |

### 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/m3  |
|                            | Workers   | Inhalation      | Acute local effects        | 442 mg/m3  |
|                            | Workers   | Dermal          | Long-term systemic effects | 212 mg/kg  |
|                            | Consumers | Inhalation      | Long-term systemic effects | 65,3 mg/m3 |
|                            | 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/m3  |
|                            | Workers   | Skin contact    | Long-term systemic effects | 796 mg/kg  |
|                            | Workers   | Inhalation      | Long-term systemic effects | 275 mg/m3  |
|                            | Consumers | Skin contact    | Long-term systemic effects | 320 mg/kg  |
|                            | Consumers | Inhalation      | Long-term systemic effects | 33 mg/m3   |
|                            | Consumers | Ingestion       | Long-term systemic effects | 36 mg/kg   |
|                            | Workers   | Inhalation      | Acute local effects        | 550 mg/m3  |
|                            | Consumers | Inhalation      | Acute local effects        | 33 mg/m3   |
| n-butyl acetate            | Workers   | Inhalation      | Acute local effects        | 600 mg/m3  |
|                            | Workers   | Inhalation      | Long-term local effects    | 300 mg/m3  |
|                            | Consumers | Inhalation      | Acute local effects        | 300 mg/m3  |
|                            | Consumers | Inhalation      | Long-term local effects    | 35,7 mg/m3 |
|                            | Workers   | Dermal          | Long-term systemic effects | 11 mg/kg   |
|                            | Workers   | Dermal          | Acute systemic             | 11 mg/kg   |

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|  |           |        | effects                    |         |
|--|-----------|--------|----------------------------|---------|
|  | Consumers | Dermal | Long-term systemic effects | 6 mg/kg |
|  | Consumers | Dermal | Acute systemic effects     | 6 mg/kg |
|  | Consumers | Oral   | Long-term systemic effects | 2 mg/m3 |
|  | Consumers | Oral   | Acute systemic effects     | 2 mg/m3 |

### 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-methoxy-1-methylethyl acetate | Intermittent releases     | 0,327 mg/l   |
|                                 | Fresh water               | 0,635 mg/l   |
|                                 | Marine water              | 0,0635 mg/l  |
|                                 | Intermittent releases     | 6,35 mg/l    |
|                                 | Sewage treatment plant    | 100 mg/l     |
|                                 | Fresh water sediment      | 3,29 mg/kg   |
| n-butyl acetate                 | Marine sediment           | 0,329 mg/kg  |
|                                 | Soil                      | 0,29 mg/kg   |
|                                 | Fresh water               | 0,18 mg/l    |
|                                 | Marine water              | 0,018 mg/l   |
|                                 | Intermittent releases     | 0,36 mg/l    |
|                                 | Fresh water sediment      | 0,981 mg/kg  |
|                                 | Marine sediment           | 0,0981 mg/kg |
|                                 | Soil                      | 0,0903 mg/kg |
|                                 | Sewage treatment plant    | 35,6 mg/l    |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

### Hand protection

Material : butyl-rubber  
Break through time : > 480 min

### 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.

### Respiratory protection

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

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### 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                                           | : colourless                                                              |
| Odour                                            | : ester-like                                                              |
| Melting point/freezing point                     | : < 0 °C<br>Method: derived                                               |
| Initial boiling point and boiling range          | : 124 °C<br>Method: derived                                               |
| Upper explosion limit / Upper flammability limit | : No data available                                                       |
| Lower explosion limit / Lower flammability limit | : No data available                                                       |
| Flash point                                      | : 29 °C<br>Method: 48 (Abel-Pensky) DIN 51755                             |
| Auto-ignition temperature                        | : > 200 °C<br>Method: M0062 (Analytics Wesel)                             |
| Decomposition temperature                        | : No data available                                                       |
| pH                                               | : 5 (20 °C)<br>Concentration: 1 %<br>Method: Universal pH-value indicator |
| Viscosity                                        |                                                                           |
| Viscosity, dynamic                               | : No data available                                                       |
| Viscosity, kinematic                             | : 141,1 mm <sup>2</sup> /s (40 °C)<br>Method: calculated                  |
| Solubility(ies)                                  |                                                                           |
| Water solubility                                 | : immiscible                                                              |
| Partition coefficient: n-                        | : No data available                                                       |

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octanol/water

Vapour pressure : 7 hPa (20 °C)  
Method: derived

Density : 0,998 g/cm<sup>3</sup> (20 °C, 1.013 hPa)  
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

## 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 oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## 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

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Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

### Components:

#### **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-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### **n-butyl acetate:**

Acute oral toxicity : LD50 (Rat, male): > 10.000 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): > 21,1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 14.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Causes skin irritation.

### Product:

Remarks : Causes skin irritation.

Remarks : May irritate skin.  
May cause skin irritation in susceptible persons.

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### Components:

#### **2-methoxy-1-methylethyl acetate:**

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

#### **n-butyl acetate:**

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

#### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### Product:

Remarks : Causes serious eye irritation.

Remarks : Causes serious eye irritation.

### Components:

#### **2-methoxy-1-methylethyl acetate:**

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

#### **n-butyl acetate:**

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

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified due to lack of data.

##### **Respiratory sensitisation**

Not classified due to lack of data.

### Product:

Remarks : No data available

### Components:

#### **2-methoxy-1-methylethyl acetate:**

Species : Guinea pig

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Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

### **n-butyl acetate:**

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **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

### **Carcinogenicity**

Not classified due to lack of data.

#### **Product:**

Remarks : No data available

### **Reproductive toxicity**

Not classified due to lack of data.

#### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### **STOT - single exposure**

May cause respiratory irritation.  
May cause drowsiness or dizziness.

#### **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:**

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Remarks : No data available

### 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.

### Further information

### Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

### Components:

### 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  
Method: OECD Test Guideline 201

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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-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Fish): 100 - 180 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1.000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: no

### n-butyl acetate:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 44 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (*Scenedesmus subspicatus*): 675 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 23 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211

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### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

#### Components:

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

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

##### **2-methoxy-1-methylethyl acetate:**

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

##### **n-butyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

### 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

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

##### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,2 (20 °C)  
pH: 6,8  
Method: OECD Test Guideline 117  
GLP: yes

##### **n-butyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)  
pH: 7  
Method: OECD Test Guideline 117

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GLP: yes

### 12.4 Mobility in soil

No data available

### 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.  
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

ADN : UN 1993

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**ADR** : UN 1993

**RID** : UN 1993

**IMDG** : UN 1993

**IATA** : UN 1993

### 14.2 UN proper shipping name

**ADN** : FLAMMABLE LIQUID, N.O.S.  
(Xylene, 1-Methoxy-2-propanol acetate, BUTYL ACETATE)

**ADR** : FLAMMABLE LIQUID, N.O.S.  
(Xylene, 1-Methoxy-2-propanol acetate, n-Butylacetate)

**RID** : FLAMMABLE LIQUID, N.O.S.  
(Xylene, 1-Methoxy-2-propanol acetate, n-Butylacetate)

**IMDG** : FLAMMABLE LIQUID, N.O.S.  
(XYLENE, 1-Methoxy-2-propanol acetate, BUTYL ACETATE)

**IATA** : Flammable liquid, n.o.s.  
(Xylene, 1-Methoxy-2-propanol acetate, Butyl acetate)

### 14.3 Transport hazard class(es)

**ADN** : 3

**ADR** : 3

**RID** : 3

**IMDG** : 3

**IATA** : 3

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E

**RID**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**IMDG**  
Packing group : III  
Labels : 3

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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

### IATA (Passenger)

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

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

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.

## 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

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|                                                                                                                                                         |     |                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).                                                               | :   | contact your vendor.<br>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                                                                                                                         |
| Volatile organic compounds                                                                                                                              | :   | Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC)<br>Volatile organic compounds (VOC) content: 55 %                     |

### 15.2 Chemical safety assessment

Not applicable

## 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.                                       |
| H304   | : | May be fatal if swallowed and enters airways.                      |
| H312   | : | Harmful in contact with skin.                                      |
| H315   | : | Causes skin irritation.                                            |
| H319   | : | Causes serious eye irritation.                                     |
| H332   | : | Harmful if inhaled.                                                |
| H335   | : | May cause respiratory irritation.                                  |
| H336   | : | May cause drowsiness or dizziness.                                 |
| H373   | : | May cause damage to organs through prolonged or repeated exposure. |
| H412   | : | Harmful to aquatic life with long lasting effects.                 |
| EUH066 | : | Repeated exposure may cause skin dryness or cracking.              |

### Full text of other abbreviations

|                 |   |                                    |
|-----------------|---|------------------------------------|
| Acute Tox.      | : | Acute toxicity                     |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Asp. Tox.       | : | Aspiration hazard                  |
| Eye Irrit.      | : | Eye irritation                     |
| Flam. Liq.      | : | Flammable liquids                  |
| Skin Irrit.     | : | Skin irritation                    |

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|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| 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   |
| 2019/1831/EU        | : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| CH BAT              | : Switzerland. List of BAT-values                                                                                      |
| CH SUVA             | : Switzerland. Limit values at the work place                                                                          |
| 2000/39/EC / TWA    | : Limit Value - eight hours                                                                                            |
| 2000/39/EC / STEL   | : Short term exposure limit                                                                                            |
| 2019/1831/EU / TWA  | : Limit Value - eight hours                                                                                            |
| 2019/1831/EU / STEL | : Short term exposure limit                                                                                            |
| CH SUVA / TWA       | : Time Weighted Average                                                                                                |
| CH SUVA / STEL      | : Short Term Exposure Limit                                                                                            |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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

#### Classification procedure:

Based on product data or assessment

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|                   |      |                    |
|-------------------|------|--------------------|
| Skin Irrit. 2     | H315 | Calculation method |
| Eye Irrit. 2      | H319 | Calculation method |
| STOT SE 3         | H336 | Calculation method |
| STOT SE 3         | H335 | Calculation method |
| STOT RE 2         | H373 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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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