

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MOBIHEL 2K HS hardener 4100

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 27.11.2023     | MAT000419583 | Date of first issue: 27.11.2023 |
|         |                | ES/EN        |                                 |

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

#### 1.1 Product identifier

Trade name : MOBIHEL 2K HS hardener 4100  
Product code : 419583

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

Use of the Sub-stance/Mixture : PC9a Coatings and paints, thinners, paint removers  
Recommended restrictions on use : Reserved for industrial and professional use.

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

Company : Helios TBLUS d.o.o.  
Količevo 65  
1230 Domžale  
Slovenia  
Telephone Company : 386 (1) 722 4383  
Telefax Company : 386 (1) 722 4310  
Responsible/issuing person : 386 (1) 722 4383  
productsafety@helios.si

#### 1.4 Emergency telephone number

Instituto Nacional de Toxicología y Ciencias Forenses Servicio de Información Toxicológica + 34  
91 562 04 20

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### 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, Central nervous system | H336: May cause drowsiness or dizziness.   |

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|----------------|------------------------------|--------------------------------------|--|

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

### 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.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### **Response:**

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:**

Hexamethylene-di-isocyanate, polymer  
n-butyl acetate  
Hydrocarbons, C9 aromatics  
hexamethylene-di-isocyanate

### 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.

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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.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number     | Classification   | Concentration<br>(% w/w) |
|---|---|--|--------------------------|
| Hexamethylene-di-isocyanate, polymer                    | 28182-81-2<br>500-060-2<br>01-2119485796-17               | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory system)  | >= 50 - < 70             |
| n-butyl acetate   | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066  | >= 10 - < 20             |
| Hydrocarbons, C9 aromatics                              | -<br>918-668-5<br>01-2119455851-35                        | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411                                | >= 10 - < 20             |
| isobutyl acetate  | 110-19-0<br>203-745-1<br>607-026-00-7<br>01-2119488971-22 | Flam. Liq. 2; H225<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066  | >= 1 - < 10              |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | -<br>905-562-9<br>01-2119555267-33                        | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | >= 1 - < 10              |
| Solvent naphtha (petroleum), light                      | 64742-95-6  | Flam. Liq. 3; H226   | >= 2,5 - < 10            |

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|  |   |   |       |
|--|---|---|-------|
| arom.; Low boiling point naphtha - unspecified | 265-199-0<br>649-356-00-4<br>01-2119455851-35             | STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411   |       |
| hexamethylene-di-isocyanate                    | 822-06-0<br>212-485-8<br>615-011-00-1<br>01-2119457571-37 | Acute Tox. 4; H302<br>Acute Tox. 2; H330<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory system)<br><hr/> specific concentration<br>limit<br>Resp. Sens. 1; H334<br>>= 0,5 %<br>Skin Sens. 1; H317<br>>= 0,5 % | < 0,1 |

### 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.
- In case of skin contact : If skin irritation persists, call a physician.  
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.

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

Risks : May cause an allergic skin reaction.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

Treatment : Treat symptomatically.

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

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.

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### 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

See sections: 7, 8, 11, 12 and 13.

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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 exposure - obtain special instructions before use.  
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. Observe label precautions. Electrical installations / working materials

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must comply with the technological safety standards.

Further information on storage conditions : Protect from moisture.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No.                         | Value type (Form of exposure) | Control parameters               | Basis            |  |
|---|---------------------------------|-------------------------------|----------------------------------|------------------|--|
| n-butyl acetate   | 123-86-4                        | VLA-ED                        | 50 ppm<br>241 mg/m <sup>3</sup>  | ES VLA           |  |
|   |                                 | VLA-EC                        | 150 ppm<br>723 mg/m <sup>3</sup> | ES VLA           |  |
|   |                                 | STEL                          | 150 ppm<br>723 mg/m <sup>3</sup> | 2019/1831/E<br>U |  |
|   | Further information: Indicative |                               |                                  |                  |  |
|   |                                 | TWA                           | 50 ppm<br>241 mg/m <sup>3</sup>  | 2019/1831/E<br>U |  |
|   | Further information: Indicative |                               |                                  |                  |  |
| isobutyl acetate  | 110-19-0                        | VLA-ED                        | 50 ppm<br>241 mg/m <sup>3</sup>  | ES VLA           |  |
|   |                                 | TWA                           | 50 ppm<br>241 mg/m <sup>3</sup>  | 2019/1831/E<br>U |  |
|   |                                 | STEL                          | 150 ppm<br>723 mg/m <sup>3</sup> | 2019/1831/E<br>U |  |
|   | Further information: Indicative |                               |                                  |                  |  |
|   |                                 | VLA-EC                        | 150 ppm<br>723 mg/m <sup>3</sup> | ES VLA           |  |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7                       | VLA-ED                        | 50 ppm<br>221 mg/m <sup>3</sup>  | ES VLA           |  |
|   |                                 | Further information: Skin     |                                  |                  |  |
|   |                                 | VLA-EC                        | 100 ppm<br>442 mg/m <sup>3</sup> | ES VLA           |  |
|   | Further information: Skin       |                               |                                  |                  |  |

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|-----------------------------|--|--------|--------------------------------------|------------|
|                             |  | 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 |        |                                      |            |
| hexamethylene-di-isocyanate | 822-06-0   | VLA-ED | 0,005 ppm<br>0,035 mg/m <sup>3</sup> | ES VLA     |
|                             | Further information: Sensitizer agent  |        |                                      |            |

### Biological occupational exposure limits

| Substance name  | CAS-No.   | Control parameters                             | Sampling time  | Basis  |
|---|-----------|--|----------------|--------|
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7 | methylhippuric acids: 1 g/g creatinine (Urine) | End of workday | ES VLB |

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

| Substance name                       | End Use   | Exposure routes | Potential health effects   | Value                  |
|--------------------------------------|-----------|-----------------|----------------------------|------------------------|
| Hexamethylene-di-isocyanate, polymer | Workers   | Inhalation      | Long-term local effects    | 0,5 mg/m <sup>3</sup>  |
|                                      | Workers   | Inhalation      | Long-term systemic effects | 1 mg/m <sup>3</sup>    |
| n-butyl acetate                      | Workers   | Inhalation      | Acute systemic effects     | 600 mg/m <sup>3</sup>  |
|                                      | Workers   | Inhalation      | Acute local effects        | 600 mg/m <sup>3</sup>  |
|                                      | Workers   | Inhalation      | Long-term systemic effects | 48 mg/m <sup>3</sup>   |
|                                      | Workers   | Inhalation      | Long-term local effects    | 300 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Acute systemic effects     | 300 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Acute local effects        | 300 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Long-term systemic effects | 12 mg/m <sup>3</sup>   |
|                                      | Consumers | Inhalation      | Long-term local effects    | 35,7 mg/m <sup>3</sup> |
|                                      | Consumers | Dermal          | Long-term systemic effects | 3,4 mg/kg bw/day       |
|                                      | Consumers | Dermal          | Acute systemic effects     | 6 mg/kg bw/day         |
|                                      | Consumers | Oral            | Long-term systemic effects | 2 mg/kg bw/day         |
|                                      | Consumers | Oral            | Acute systemic effects     | 2 mg/kg bw/day         |
|                                      | Workers   | Dermal          | Long-term systemic effects | 7 mg/kg bw/day         |
|                                      | Workers   | Dermal          | Acute systemic effects     | 11 mg/kg bw/day        |



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|---|-----------|------------|----------------------------|------------------------|
| Hydrocarbons, C9 aromatics                              | Workers   | Inhalation | Long-term systemic effects | 150 mg/m <sup>3</sup>  |
|   | Workers   | Oral       | Long-term systemic effects | 150 mg/m <sup>3</sup>  |
|   | Consumers | Inhalation | Long-term exposure         | 32 mg/m <sup>3</sup>   |
|   | Workers   | Dermal     | Long-term systemic effects | 25 mg/kg bw/day        |
|   | Consumers | Dermal     | Long-term systemic effects | 11 mg/kg bw/day        |
| isobutyl acetate  | Workers   | Inhalation | Long-term systemic effects | 300 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation | Acute systemic effects     | 600 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation | Long-term local effects    | 300 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation | Acute local effects        | 600 mg/m <sup>3</sup>  |
|   | Consumers | Inhalation | Long-term systemic effects | 35,7 mg/m <sup>3</sup> |
|   | Consumers | Inhalation | Long-term local effects    | 35,7 mg/m <sup>3</sup> |
|   | Consumers | Inhalation | Acute local effects        | 300 mg/m <sup>3</sup>  |
|   | Workers   | Dermal     | Long-term systemic effects | 10 mg/kg bw/day        |
|   | Consumers | Oral       | Acute systemic effects     | 5 mg/kg bw/day         |
|   | Workers   | Dermal     | Acute systemic effects     | 10 mg/kg bw/day        |
|   | Consumers | Dermal     | Long-term systemic effects | 5 mg/kg bw/day         |
|   | Consumers | Dermal     | Acute systemic effects     | 5 mg/kg bw/day         |
|   | Consumers | Oral       | Long-term systemic effects | 5 mg/kg bw/day         |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Workers   | Inhalation | Long-term systemic effects | 77 mg/m <sup>3</sup>   |
|   | Consumers | Inhalation | Long-term local effects    | 65,3 mg/m <sup>3</sup> |
|   | Workers   | Inhalation | Acute systemic effects     | 442 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation | Acute local effects        | 289 mg/m <sup>3</sup>  |
|   | Consumers | Inhalation | Acute systemic effects     | 260 mg/m <sup>3</sup>  |
|   | Workers   | Inhalation | Long-term local effects    | 221 mg/m <sup>3</sup>  |
|   | Consumers | Inhalation | Long-term systemic effects | 14,8 mg/m <sup>3</sup> |
|   | Consumers | Inhalation | Acute local effects        | 260 mg/m <sup>3</sup>  |
|   | Consumers | Dermal     | Long-term systemic effects | 108 mg/kg bw/day       |
|   | Consumers | Oral       | Long-term systemic effects | 16 mg/kg bw/day        |

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|  | Workers   | Dermal     | Long-term systemic effects | 180 mg/kg bw/day |
|--|-----------|------------|----------------------------|------------------|
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified | Workers   | Inhalation | Long-term systemic effects | 150 mg/m3        |
|  | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3         |
|  | Consumers | Dermal     | Long-term systemic effects | 11 mg/kg bw/day  |
|  | Workers   | Dermal     | Long-term systemic effects | 25 mg/kg bw/day  |
|  | Consumers | Oral       | Long-term systemic effects | 11 mg/kg bw/day  |
| hexamethylene-di-isocyanate  | Workers   | Inhalation | Long-term systemic effects | 0,035 mg/m3      |
|  | Workers   | Inhalation | Acute systemic effects     | 0,07 mg/m3       |
|  | Workers   | Inhalation | Long-term local effects    | 0,035 mg/m3      |
|  | Workers   | Inhalation | Acute local effects        | 0,07 mg/m3       |

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

| Substance name                       | Environmental Compartment | Value                          |
|--------------------------------------|---------------------------|--------------------------------|
| Hexamethylene-di-isocyanate, polymer | Soil                      | 505 mg/kg dry weight (d.w.)    |
|                                      | Marine water              | 0,01 mg/l                      |
|                                      | Fresh water               | 0,1 mg/l                       |
|                                      | Marine sediment           | 253 mg/kg dry weight (d.w.)    |
|                                      | Fresh water sediment      | 2530 mg/kg dry weight (d.w.)   |
|                                      | Sewage treatment plant    | 100 mg/l                       |
|                                      | Intermittent use/release  | 1 mg/l                         |
| n-butyl acetate                      | Soil                      | 0,0903 mg/kg dry weight (d.w.) |
|                                      | Marine water              | 0,018 mg/l                     |
|                                      | Fresh water               | 0,18 mg/l                      |
|                                      | Marine sediment           | 0,0981 mg/kg dry weight (d.w.) |
|                                      | Fresh water sediment      | 0,981 mg/kg dry weight (d.w.)  |
|                                      | Sewage treatment plant    | 35,6 mg/l                      |
|                                      | Intermittent use/release  | 0,36 mg/l                      |
| isobutyl acetate                     | Soil                      | 0,0755 mg/kg dry weight (d.w.) |
|                                      | Marine water              | 0,017 mg/l                     |
|                                      | Fresh water               | 0,17 mg/l                      |
|                                      | Marine sediment           | 0,0877 mg/kg dry weight (d.w.) |
|                                      | Fresh water sediment      | 0,877 mg/kg dry weight (d.w.)  |

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|---|--------------------------|----------------------------------|
|   | Sewage treatment plant   | 200 mg/l                         |
|   | Intermittent use/release | 0,34 mg/l                        |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Soil                     | 2,31 mg/kg dry weight (d.w.)     |
|   | Marine water             | 0,327 mg/l                       |
|   | Fresh water              | 0,327 mg/l                       |
|   | Marine sediment          | 12,46 mg/kg dry weight (d.w.)    |
|   | Fresh water sediment     | 12,46 mg/kg dry weight (d.w.)    |
|   | Sewage treatment plant   | 6,58 mg/l                        |
|   | Intermittent use/release | 0,327 mg/l                       |
| hexamethylene-di-isocyanate                             | Soil                     | 0,0026 mg/kg dry weight (d.w.)   |
|   | Marine water             | 0,00774 mg/l                     |
|   | Fresh water              | 0,0774 mg/l                      |
|   | Marine sediment          | 0,001344 mg/kg dry weight (d.w.) |
|   | Fresh water sediment     | 0,01334 mg/kg dry weight (d.w.)  |
|   | Sewage treatment plant   | 8,42 mg/l                        |
|   | Intermittent use/release | 0,774 mg/l                       |

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); DIN EN374 |  
butyl-rubber (> 0,6 mm; < 240 min); DIN EN374 |  
Viton® (> 0,6 mm; < 240 min); DIN EN374 |  
PE laminate (> 0,1 mm; < 240 min); DIN EN374 |

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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Equipment should conform to EN 14387

Filter type : Organic vapour type (A)

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state                                   | : liquid  |
| Colour   | : colourless  |
| Odour  | : solvent-like  |
| Odour Threshold                                  | : No data available   |
| Melting point/freezing point                     | : -98,8 °C (calculation method (principal components, lowest value))  |
| Boiling point/boiling range                      | : 117 °C (calculation method (principal components, lowest value))  |
| Flammability                                     | : Static-accumulating flammable liquid., Combustible Solids   |
| Upper explosion limit / Upper flammability limit | : 10,5 %(V) (calculation method (principal components, highest value))  |
| Lower explosion limit / Lower flammability limit | : 1,1 %(V) (calculation method (principal components, highest value))   |
| Flash point                                      | : 28 °C   |
| Ignition temperature                             | : 423 °C (calculation method (principal components, highest value))   |
| Decomposition temperature                        | : No decomposition if stored and applied as directed.<br>Hazardous decomposition products formed under fire conditions. |
| pH   | : Not applicable  |
| Viscosity  |   |
| Viscosity, kinematic                             | : > 20,5 mm <sup>2</sup> /s (40 °C)   |
| Solubility(ies)                                  |   |
| Water solubility                                 | : partly miscible   |
| Solubility in other solvents                     | : Description: miscible with most organic solvents  |

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|  |   |  |
|--|---|--|
| Partition coefficient: n-octanol/water | : | log Pow: < 4 (calculation method (principal components, highest value))        |
| Vapour pressure                        | : | < 1.100 hPa (calculation method (principal components, highest value)) (50 °C) |
| Relative density                       | : | No data available  |
| Density                                | : | 1,01 g/cm <sup>3</sup>   |
| Relative vapour density                | : | 4 (calculation method (principal components, lowest value))                    |

### 9.2 Other information

|                      |   |   |
|----------------------|---|---|
| Explosives           | : | Not applicable  |
| Oxidizing properties | : | Sustains combustion   |
| VOC                  | : | (Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control))<br>45,95 % |

---

## 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 | : | Incompatible with strong acids and bases. |
|--------------------|---|---|

### 10.6 Hazardous decomposition products

Adequate ventilation is required.  
Heating can release vapours which can be ignited.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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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 based on available information.

##### Product:

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

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

##### Components:

##### **Hexamethylene-di-isocyanate, polymer:**

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

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

Acute oral toxicity : LD50 Oral (Rat):  $\geq$  10.760 mg/kg

Acute dermal toxicity : LD50 (Rabbit):  $\geq$  5.000 mg/kg

##### **Hydrocarbons, C9 aromatics:**

Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Acute oral toxicity : LD50 Oral (Rat):  $\geq$  8.700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 27,14 mg/l  
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

##### **hexamethylene-di-isocyanate:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

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Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term inhalation.

### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

#### **Product:**

Remarks : May cause skin irritation and/or dermatitis.

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : irritating

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

Not classified based on available information.

#### **Product:**

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

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : Eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Product:**

Remarks : Causes sensitisation.

#### **Components:**

##### **Hexamethylene-di-isocyanate, polymer:**

Result : Probability or evidence of skin sensitisation in humans

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Germ cell mutagenicity- As- : Classified based on benzene content < 0.1% (Regulation (EC))

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essment 1272/2008, Annex VI, Part 3, Note P)

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

May cause respiratory irritation.

May cause drowsiness or dizziness.

### **Components:**

#### **Hexamethylene-di-isocyanate, polymer:**

Assessment : May cause respiratory irritation.

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

Assessment : May cause drowsiness or dizziness.

#### **Hydrocarbons, C9 aromatics:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

#### **isobutyl acetate:**

Assessment : May cause drowsiness or dizziness.

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause respiratory irritation.

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified based on available information.



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### Components:

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration toxicity**

Not classified based on available information.

### Components:

#### **Hydrocarbons, C9 aromatics:**

May be fatal if swallowed and enters airways.

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

May be fatal if swallowed and enters airways.

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

May be fatal if swallowed and enters airways.

## 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

#### Components:

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

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l

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EC50 (Desmodesmus subspicatus (green algae)):  $\geq 647,7$  mg/l  
Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h

### Hydrocarbons, C9 aromatics:

Toxicity to fish : LC50 (Fish):  $\geq 9,2$  mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)):  $\geq 3,2$  mg/l  
aquatic invertebrates Exposure time: 48 h

### Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### reaction mixture of ethylbenzene, m-xylene and p-xylene:

Toxicity to fish : LC50 (Fish):  $\geq 1 - 10$  mg/l

Toxicity to daphnia and other : LC50 (Daphnia (water flea)):  $\geq 1 - 10$  mg/l  
aquatic invertebrates

Toxicity to microorganisms : EC50 (Bacteria):  $\geq 1 - 100$  mg/l

### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Toxicity to fish : LC50 (Fish):  $> 1 - 10$  mg/l

Toxicity to daphnia and other : LC50 (Daphnia (water flea)):  $> 1 - 10$  mg/l  
aquatic invertebrates

Toxicity to microorganisms : EC50 (Bacteria):  $> 1 - 10$  mg/l

### Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Components:

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

Biodegradability : Result: Biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d  
pH: 8

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Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Biodegradability : Readily biodegradable.

Photodegradation : Decomposes rapidly in contact with light.

### 12.3 Bioaccumulative potential

#### **Components:**

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

Bioaccumulation : Bioconcentration factor (BCF): 15  
Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 1,81

##### **Hydrocarbons, C9 aromatics:**

Partition coefficient: n-  
octanol/water : log Pow: < 4

##### **isobutyl acetate:**

Partition coefficient: n-  
octanol/water : log Pow: 1,72

### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 25,9  
Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : log Pow: 2,77 - 3,15

### 12.4 Mobility in soil

#### **Components:**

##### **Hydrocarbons, C9 aromatics:**

Mobility : Medium: Air  
Content: 92,9 %

: Medium: Water  
Content: 3,5 %

: Medium: Soil  
Content: 1,9 %

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: Medium: Sediment  
Content: 1,8 %

Distribution among environmental compartments : Koc: 1,71 - 14,70  
Mobile in soils

The product is insoluble and floats on water.

### reaction mixture of ethylbenzene, m-xylene and p-xylene:

Distribution among environmental compartments : Koc: 537, log Koc: 2,73  
Moderately mobile in soils  
The product evaporates from soil.

Stability in soil : Dissipation time: 23 d  
Percentage dissipation: 50 % (DT50)

## 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.

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|                        |   |   |
|------------------------|---|---|
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum.  |
| Waste Code             | : | 08 00 00, WASTES FROM THE MANUFACTURE,<br>FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS<br>(PAINTS, VARNISHES AND VITREOUS ENAMELS),<br>ADHESIVES, SEALANTS AND PRINTING INKS<br>08 01 00, wastes from MFSU and removal of paint and var-<br>nish<br>08 01 11, waste paint and varnish containing organic solvents<br>or other hazardous substances<br>15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING<br>CLOTHS, FILTER MATERIALS AND PROTECTIVE<br>CLOTHING NOT OTHERWISE SPECIFIED<br>15 01 00, packaging (including separately collected municipal<br>packaging waste)<br>15 01 10, packaging containing residues of or contaminated<br>by hazardous substances<br>HP3, Flammable<br>HP13, Sensitising |

---

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |   |         |
|------|---|---------|
| ADN  | : | UN 1263 |
| ADR  | : | UN 1263 |
| RID  | : | UN 1263 |
| IMDG | : | UN 1263 |
| IATA | : | UN 1263 |

#### 14.2 UN proper shipping name

|      |   |       |
|------|---|-------|
| ADN  | : | PAINT |
| ADR  | : | PAINT |
| RID  | : | PAINT |
| IMDG | : | PAINT |
| IATA | : | Paint |

#### 14.3 Transport hazard class(es)

|     | Class | Subsidiary risks |
|-----|-------|------------------|
| ADN | :     | 3                |
| ADR | :     | 3                |
| RID | :     | 3                |

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**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  
EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
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

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### 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 75, 3

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). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

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

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same

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purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 45,95 %

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### 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.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H330 : Fatal if inhaled.  
H332 : Harmful if inhaled.  
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H411 : Toxic 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  
Resp. Sens. : Respiratory sensitisation



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|                     |   |  |
|---------------------|---|--|
| 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   |
| 2019/1831/EU        | : | Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| ES VLA              | : | Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values                  |
| ES VLB              | : | Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values                               |
| 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  |
| ES VLA / VLA-ED     | : | Environmental Daily Limit Value  |
| ES VLA / VLA-EC     | : | Environmental Short Term Value   |

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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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 - Organization 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; TECl - 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MOBIHEL 2K HS hardener 4100

Version  
1.0

Revision Date:  
27.11.2023

SDS Number:  
MAT000419583  
ES/EN

Date of last issue: -  
Date of first issue: 27.11.2023

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### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| Skin Sens. 1      | H317 |
| STOT SE 3         | H336 |
| STOT SE 3         | H335 |
| Aquatic Chronic 3 | H412 |

### Classification procedure:

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