

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## MOBIHEL 2K hardener 1300

|         |                |                         |                                 |
|---------|----------------|-------------------------|---------------------------------|
| Version | Revision Date: | SDS Number:             | Date of last issue: -           |
| 1.0     | 20.08.2021     | MAT000416726<br>GB / EN | Date of first issue: 20.08.2021 |

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

#### 1.1 Product identifier

Product code : 41672602

Trade name : MOBIHEL 2K hardener 1300

Unique Formula Identifier (UFI) : CJK0-X0KG-600C-QGS5

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

Use of the Substance/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

Call 999 for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892 0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

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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.

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| 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.                  |
| 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.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
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  
2-ethoxy-1-methylethyl acetate  
n-butyl acetate  
Hydrocarbons, C9 aromatics

#### Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

### 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)   | >= 30 - < 50             |
| 2-ethoxy-1-methylethyl acetate  | 54839-24-6<br>259-370-9<br>603-177-00-8<br>01-2119475116-39 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)   | >= 10 - < 20             |
| 2-butoxyethyl acetate   | 112-07-2<br>203-933-3<br>607-038-00-2<br>01-2119475112-47   | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312  | >= 10 - < 20             |
| 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   | >= 1 - < 10              |
| Hydrocarbons, C9 aromatics  | -<br><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 | >= 2,5 - < 10            |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 64742-95-6<br>265-199-0<br>649-356-00-4<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;         | >= 1 - < 2,5             |

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H411

### 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 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.

#### 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.

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

- Treatment : Treat symptomatically.

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

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fighting 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.

### 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.

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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 : 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 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) : 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   |
|-------------------------------------|--|-------------------------------|--------------------|---------|
| Hexamethylene-diisocyanate, polymer | 28182-81-2   | TWA                           | 0,02 mg/m3 (NCO)   | GB EH40 |
|                                     | Further information: Capable of causing occupational asthma. |                               |                    |         |
|                                     |  | STEL                          | 0,07 mg/m3 (NCO)   | GB EH40 |
|                                     | Further information: Capable of causing occupational asthma. |                               |                    |         |

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|-----------------------|--|------|----------------------------------|------------------|
| 2-butoxyethyl acetate | 112-07-2   | TWA  | 20 ppm<br>133 mg/m <sup>3</sup>  | 2000/39/EC       |
|                       | Further information: Identifies the possibility of significant uptake through the skin, Indicative   |      |                                  |                  |
|                       |  | STEL | 50 ppm<br>333 mg/m <sup>3</sup>  | 2000/39/EC       |
|                       | Further information: Identifies the possibility of significant uptake through the skin, Indicative   |      |                                  |                  |
|                       |  | TWA  | 20 ppm<br>133 mg/m <sup>3</sup>  | GB EH40          |
|                       | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |      |                                  |                  |
|                       |  | STEL | 50 ppm<br>332 mg/m <sup>3</sup>  | GB EH40          |
|                       | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |      |                                  |                  |
| n-butyl acetate       | 123-86-4   | TWA  | 150 ppm<br>724 mg/m <sup>3</sup> | GB EH40          |
|                       |  | STEL | 200 ppm<br>966 mg/m <sup>3</sup> | GB EH40          |
|                       |  | 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  |      |                                  |                  |

### Biological occupational exposure limits

| Substance name                      | CAS-No.    | Control parameters  | Sampling time                        | Basis          |
|-------------------------------------|------------|---|--------------------------------------|----------------|
| Hexamethylene-diisocyanate, polymer | 28182-81-2 | isocyanate-derived diamine (Isocyanates): 1 µmol/mol creatinine (Urine) | At the end of the period of exposure | GB EH40<br>BAT |

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

| Substance name                      | End Use   | Exposure routes | Potential health effects   | Value                  |
|-------------------------------------|-----------|-----------------|----------------------------|------------------------|
| Hexamethylene-diisocyanate, 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>    |
| ethyl 3-ethoxypropionate            | Workers   | Inhalation      | Long-term systemic effects | 610 mg/m <sup>3</sup>  |
|                                     | Workers   | Inhalation      | Long-term local effects    | 610 mg/m <sup>3</sup>  |
|                                     | Consumers | Inhalation      | Long-term systemic effects | 72,6 mg/m <sup>3</sup> |
|                                     | Consumers | Inhalation      | Long-term local effects    | 72,6 mg/m <sup>3</sup> |

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|                            |           |            |                            |                        |
|----------------------------|-----------|------------|----------------------------|------------------------|
|                            | Workers   | Dermal     | Long-term local effects    | 102 mg/cm <sup>2</sup> |
|                            | Workers   | Dermal     | Long-term systemic effects | 102 mg/kg bw/day       |
|                            | Consumers | Dermal     | Long-term systemic effects | 24,2 mg/kg bw/day      |
|                            | Consumers | Oral       | Long-term systemic effects | 1,2 mg/kg bw/day       |
| 2-butoxyethyl acetate      | Workers   | Inhalation | Long-term systemic effects | 333 mg/m <sup>3</sup>  |
|                            | Consumers | Oral       | Long-term systemic effects | 86 mg/kg bw/day        |
|                            | Workers   | Dermal     | Long-term systemic effects | 169 mg/kg bw/day       |
|                            | Workers   | Dermal     | Acute systemic effects     | 120 mg/kg bw/day       |
|                            | Consumers | Dermal     | Long-term systemic effects | 102 mg/kg bw/day       |
|                            | Consumers | Dermal     | Acute systemic effects     | 72 mg/kg bw/day        |
|                            | Consumers | Oral       | Acute systemic effects     | 36 mg/kg bw/day        |
| 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        |
| 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>  |



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|--|-----------|------------|----------------------------|-----------------|
|  | Consumers | Inhalation | Long-term exposure         | 32 mg/m3        |
|  | Workers   | Dermal     | Long-term systemic effects | 25 mg/kg bw/day |
|  | Consumers | Dermal     | Long-term systemic effects | 11 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 |

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

| Substance name                       | Environmental Compartment | Value                          |
|--------------------------------------|---------------------------|--------------------------------|
| Hexamethylene-di-isocyanate, polymer | Soil                      | 53182 mg/kg dry weight (d.w.)  |
|                                      | Marine water              | 0,0127 mg/l                    |
|                                      | Fresh water               | 0,127 mg/l                     |
|                                      | Marine sediment           | 26670 mg/kg dry weight (d.w.)  |
|                                      | Fresh water sediment      | 266670 mg/kg dry weight (d.w.) |
|                                      | Sewage treatment plant    | 38,3 mg/l                      |
|                                      | Intermittent use/release  | 1,27 mg/l                      |
| ethyl 3-ethoxypropionate             | Soil                      | 0,048 mg/kg dry weight (d.w.)  |
|                                      | Marine water              | 0,00609 mg/l                   |
|                                      | Fresh water               | 0,0609 mg/l                    |
|                                      | Marine sediment           | 0,0419 mg/kg dry weight (d.w.) |
|                                      | Fresh water sediment      | 0,419 mg/kg dry weight (d.w.)  |
|                                      | Sewage treatment plant    | 50 mg/l                        |
|                                      | Intermittent use/release  | 0,609 mg/l                     |
| 2-butoxyethyl acetate                | Soil                      | 0,415 mg/kg dry weight (d.w.)  |
|                                      | Marine water              | 0,0304 mg/l                    |
|                                      | Fresh water               | 0,304 mg/l                     |
|                                      | Marine sediment           | 0,203 mg/kg dry weight (d.w.)  |
|                                      | Fresh water sediment      | 2,03 mg/kg dry weight (d.w.)   |
|                                      | Sewage treatment plant    | 90 mg/l                        |
|                                      | Intermittent use/release  | 0,56 mg/l                      |
| n-butyl acetate                      | Soil                      | 0,0903 mg/kg dry weight (d.w.) |

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

### 8.2 Exposure controls

#### Personal protective equipment

- Eye protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles
- Hand protection
- Gloves : | Viton® (> 0,6 mm; < 240 min); DIN EN374 | | PE laminate (> 0,1 mm; < 240 min); DIN EN374 |
- Remarks : 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.  
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 : -89,0 °C  
(calculation method (principal components, lowest value))
- Boiling point/boiling range : 126 °C (calculation method (principal components, lowest value))
- Flammability : Static-accumulating flammable liquid., Combustible Solids
- Upper explosion limit / Upper flammability limit : 10,1 %(V) (calculation method (principal components, highest value))

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|---|---|---|
| Lower explosion limit / Lower flammability limit                    | : | 1 %(V) (calculation method (principal components, highest value))   |
| Flash point   | : | 37 °C   |
| Ignition temperature  | : | 280 °C (calculation method (principal components, highest value))   |
| Decomposition temperature<br>Decomposition temperature              | : | No decomposition if stored and applied as directed.<br>Hazardous decomposition products formed under fire conditions. |
| pH  | : | Not applicable  |
| Viscosity<br>Viscosity, kinematic                                   | : | > 20,5 mm <sup>2</sup> /s (40 °C)   |
| Flow time   | : | 12 s at 20 °C<br>Cross section: 4 mm<br>Method: DIN 53211   |
| Solubility(ies)<br>Water solubility<br>Solubility in other solvents | : | immiscible, partly soluble<br>Description: miscible with most organic solvents  |
| Partition coefficient: n-octanol/water                              | : | log Pow: 1,81 (calculation method (principal components, highest value))  |
| Vapour pressure   | : | < 1.100 hPa (calculation method (principal components, highest value))<br>(50 °C)                                     |
| Relative density  | : | 0,95 (calculation method (principal components, highest value))   |
| Density   | : | 1,013 g/cm <sup>3</sup>   |
| Relative vapour density   | : | 5,5 (calculation method (principal components, lowest value))<br>(Air = 1.0)  |

### 9.2 Other information

|                      |   |                     |
|----------------------|---|---------------------|
| Explosives           | : | Not applicable      |
| Oxidizing properties | : | Sustains combustion |

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VOC : (Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control))  
60,89 %

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.  
Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

#### 10.5 Incompatible materials

Materials to avoid : 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 oral toxicity       | : | Acute toxicity estimate: > 2.000 mg/kg<br>Method: Calculation method  |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |
| Acute dermal toxicity     | : | Acute toxicity estimate: > 2.000 mg/kg<br>Method: Calculation method  |

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### Components:

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

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

#### **2-butoxyethyl acetate:**

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

LD50 Oral (Rat):  $\geq 2.400$  mg/kg

Acute inhalation toxicity : LC50 (Rat):  $\geq 50$  mg/l  
Exposure time: 2 h  
Test atmosphere: vapour

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

LD50 (Rabbit):  $\geq 1.500$  mg/kg

#### **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

#### **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

#### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

Remarks : May cause skin irritation and/or dermatitis.

#### **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.

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### 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.

#### 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.

##### 2-ethoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

##### n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

##### Hydrocarbons, C9 aromatics:

Assessment : May cause drowsiness or dizziness.

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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.

**Aspiration toxicity**

Not classified based on available information.

**Components:**

**Hydrocarbons, C9 aromatics:**

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.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**2-butoxyethyl acetate:**

Toxicity to fish : LC50 (Fish):  $\geq 31$  mg/l

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Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)):  $\geq 142,5$  mg/l  
Exposure time: 48 h

Toxicity to microorganisms : EC50 (Bacteria):  $\geq 2.800$  mg/l

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

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)):  $> 200$  mg/l  
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 aquatic invertebrates : EC50 (Daphnia (water flea)):  $\geq 3,2$  mg/l  
Exposure time: 48 h

### **Ecotoxicology Assessment**

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

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

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

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

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:

#### **2-butoxyethyl acetate:**

Biodegradability : Result: Biodegradable

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

Biodegradability : Result: Biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d



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Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d  
pH: 8  
Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

### 12.3 Bioaccumulative potential

#### Components:

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

Partition coefficient: n-octanol/water : log Pow: 0,76

##### **2-butoxyethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,51

##### **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

### 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 %

: 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.

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### 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.

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## 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.

Waste Code : 08 00 00, WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS  
08 01 00, wastes from MFSU and removal of paint and varnish  
08 01 11\*, waste paint and varnish containing organic solvents or other hazardous substances  
15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED  
15 01 00, packaging (including separately collected municipal

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packaging waste)  
15 01 10\*, packaging containing residues of or contaminated  
by hazardous substances  
HP3, Flammable  
HP13, Sensitising

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

|             |   |         |
|-------------|---|---------|
| <b>ADN</b>  | : | UN 1263 |
| <b>ADR</b>  | : | UN 1263 |
| <b>RID</b>  | : | UN 1263 |
| <b>IMDG</b> | : | UN 1263 |
| <b>IATA</b> | : | UN 1263 |

#### 14.2 UN proper shipping name

|             |   |       |
|-------------|---|-------|
| <b>ADN</b>  | : | PAINT |
| <b>ADR</b>  | : | PAINT |
| <b>RID</b>  | : | PAINT |
| <b>IMDG</b> | : | PAINT |
| <b>IATA</b> | : | Paint |

#### 14.3 Transport hazard class(es)

|             |   |   |
|-------------|---|---|
| <b>ADN</b>  | : | 3 |
| <b>ADR</b>  | : | 3 |
| <b>RID</b>  | : | 3 |
| <b>IMDG</b> | : | 3 |
| <b>IATA</b> | : | 3 |

#### 14.4 Packing group

|                              |   |       |
|------------------------------|---|-------|
| <b>ADN</b>                   |   |       |
| Packing group                | : | III   |
| Classification Code          | : | F1    |
| Hazard Identification Number | : | 30    |
| Labels                       | : | 3     |
| <b>ADR</b>                   |   |       |
| Packing group                | : | III   |
| Classification Code          | : | F1    |
| Hazard Identification Number | : | 30    |
| Labels                       | : | 3     |
| Tunnel restriction code      | : | (D/E) |
| <b>RID</b>                   |   |       |
| Packing group                | : | III   |

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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

### 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, preparations and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3 |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals                 | : | Not applicable  |

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable  
REACH - List of substances subject to authorisation (Annex XIV) : 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

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 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: 60,89 %

### 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

H226 : Flammable liquid and vapour.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H317 : May cause an allergic skin reaction.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H411 : Toxic to aquatic life with long lasting effects.

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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  
Flam. Liq. : Flammable liquids  
Skin Sens. : Skin sensitisation  
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  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 BAT : UK. Biological monitoring guidance 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  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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### Further information

#### 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                  |

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