

# SAFETY DATA SHEET

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



## MOBIHEL 2K HARDENER 750 PLUS

|         |                |                  |                                 |
|---------|----------------|------------------|---------------------------------|
| Version | Revision Date: | SDS Number:      | Date of last issue: 19.11.2025  |
| 2.1     | 13.08.2026     | MAT000402168IE/E | Date of first issue: 19.09.2023 |
|         |                | N                |                                 |

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

#### 1.1 Product identifier

Trade name : MOBIHEL 2K HARDENER 750 PLUS

Product code : 40216801

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

Use of the Sub- : PC9a: Coatings and paints, thinners, paint removers  
stance/Mixture

Recommended restrictions : Reserved for industrial and professional use.  
on use

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

Company : KANSAI HELIOS Slovenija 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@kansai-helios.si

#### 1.4 Emergency telephone number

01 809 2166 National Poisons Information Centre 01 809 2166

01 809 2566 Healthcare Professionals 01 809 2566

01 809 2566 Healthcare Professionals 01 809 2566

Access code: 13586 +1 760 476 3962

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Serious eye damage, Category 1 H318: Causes serious eye damage.

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|                                                                                      |                                            |
|--------------------------------------------------------------------------------------|--------------------------------------------|
| 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.   |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system     | H335: May cause respiratory irritation.    |

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

|                   |   |      |                                      |
|-------------------|---|------|--------------------------------------|
| Hazard statements | : | H225 | Highly flammable liquid and vapour.  |
|                   | : | H317 | May cause an allergic skin reaction. |
|                   | : | H318 | Causes serious eye damage.           |
|                   | : | H335 | May cause respiratory irritation.    |
|                   | : | H336 | May cause drowsiness or dizziness.   |

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

|                          |   |                           |                                                                                                                                                                            |  |
|--------------------------|---|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Precautionary statements | : | <b>Prevention:</b>        |                                                                                                                                                                            |  |
|                          | : | P210                      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                                                             |  |
|                          | : | P233                      | Keep container tightly closed.                                                                                                                                             |  |
|                          | : | P261                      | Avoid breathing mist or vapours.                                                                                                                                           |  |
|                          | : | P280                      | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.                                                                          |  |
|                          | : | <b>Response:</b>          |                                                                                                                                                                            |  |
|                          | : | P305 + P351 + P338 + P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. |  |
|                          | : | 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  
ethyl acetate  
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
4-isocyanatosulphonyltoluene

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hexamethylene-di-isocyanate

### Additional Labelling

"As from 24 August 2023 adequate training is required before industrial or professional use."

### 2.3 Other hazards

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

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

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

## 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,<br>polymer | 28182-81-2<br>500-060-2<br><br>01-2119485796-17               | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory system)                  | >= 30 - < 50             |
| ethyl acetate                           | 141-78-6<br>205-500-4<br><br>607-022-00-5<br>01-2119475103-46 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>EUH066 | >= 20 - < 30             |
| n-butyl acetate                         | 123-86-4<br>204-658-1<br><br>607-025-00-1<br>01-2119485493-29 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>EUH066                       | >= 10 - < 20             |
| butanone                                | 78-93-3<br>201-159-0<br><br>606-002-00-3<br>01-2119457290-43  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>EUH066 | >= 10 - < 20             |

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|                                      |                                                                |                                                                                                                                                                                                                                                                                                   |                    |
|--------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| [3-(2,3-epoxypropyl)trimethoxysilane | 2530-83-8<br>219-784-2<br><br>01-2119513212-58                 | Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412                                                                                                                                                                                                                                                    | $\geq 3 - < 10$    |
| 4-isocyanatosulphonyltoluene         | 4083-64-1<br>223-810-8<br><br>615-012-00-7<br>01-2119980050-47 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>STOT SE 3; H335<br>(Respiratory system)<br>EUH014<br><br>specific concentration<br>limit<br>Skin Irrit. 2; H315<br>$\geq 5\%$<br>STOT SE 3; H335<br>$\geq 5\%$<br>Eye Irrit. 2; H319<br>$\geq 5\%$                            | $\geq 0.1 - < 1$   |
| hexamethylene-di-isocyanate          | 822-06-0<br>212-485-8<br><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><br>specific concentration<br>limit<br>Skin Sens. 1; H317<br>$\geq 0.5\%$<br>Resp. Sens. 1; H334<br>$\geq 0.5\%$ | $\geq 0.1 - < 0.5$ |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.  
If unconscious, place in recovery position and seek medical advice.

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- |                         |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In case of skin contact | : If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                                                                                                                                                                                                                          |
| In case of eye contact  | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.                                                                                                                                              |

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

- |       |                                                                                                                                                                                                          |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Risks | : May cause an allergic skin reaction.<br>Causes serious eye damage.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>Repeated exposure may cause skin dryness or cracking. |
|       | : May cause an allergic skin reaction.<br>Causes serious eye damage.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>Repeated exposure may cause skin dryness or cracking. |

### 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<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media | : High volume water jet                                                       |

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### 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.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
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.  
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.  
To avoid spills during handling keep bottle on a metal tray.  
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). Use only explosion-proof equipment. 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 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.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components                           | CAS-No.                                                                                                                                                                      | Value type (Form of exposure) | Control parameters                 | Basis        |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|--------------|
| Hexamethylene-di-isocyanate, polymer | 28182-81-2                                                                                                                                                                   | STEL                          | 0.02 mg/m <sup>3</sup> (NCO)       | 98/24/EC I   |
|                                      | Further information: Skin, Dermal and respiratory sensitisation, Binding                                                                                                     |                               |                                    |              |
|                                      |                                                                                                                                                                              | TWA                           | 0.01 mg/m <sup>3</sup> (NCO)       | 98/24/EC I   |
|                                      | Further information: Skin, Dermal and respiratory sensitisation, Binding                                                                                                     |                               |                                    |              |
|                                      |                                                                                                                                                                              | OELV - 15 min (STEL)          | 0.07 mg/m <sup>3</sup> (NCO)       | IE OEL       |
|                                      | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis |                               |                                    |              |
|                                      |                                                                                                                                                                              | OELV - 8 hrs (TWA)            | 0.02 mg/m <sup>3</sup> (NCO)       | IE OEL       |
|                                      | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis |                               |                                    |              |
| ethyl acetate                        | 141-78-6                                                                                                                                                                     | OELV - 15 min (STEL)          | 400 ppm<br>1,468 mg/m <sup>3</sup> | IE OEL       |
|                                      |                                                                                                                                                                              | OELV - 8 hrs (TWA)            | 200 ppm<br>734 mg/m <sup>3</sup>   | IE OEL       |
|                                      |                                                                                                                                                                              | STEL                          | 400 ppm<br>1,468 mg/m <sup>3</sup> | 2017/164/EU  |
|                                      | Further information: Indicative                                                                                                                                              |                               |                                    |              |
|                                      |                                                                                                                                                                              | TWA                           | 200 ppm<br>734 mg/m <sup>3</sup>   | 2017/164/EU  |
|                                      | Further information: Indicative                                                                                                                                              |                               |                                    |              |
| n-butyl acetate                      | 123-86-4                                                                                                                                                                     | STEL                          | 150 ppm<br>723 mg/m <sup>3</sup>   | 2019/1831/EU |
|                                      | Further information: Indicative                                                                                                                                              |                               |                                    |              |
|                                      |                                                                                                                                                                              | TWA                           | 50 ppm<br>241 mg/m <sup>3</sup>    | 2019/1831/EU |
|                                      | Further information: Indicative                                                                                                                                              |                               |                                    |              |
|                                      |                                                                                                                                                                              | OELV - 15 min (STEL)          | 150 ppm<br>723 mg/m <sup>3</sup>   | IE OEL       |
|                                      |                                                                                                                                                                              | OELV - 8 hrs (TWA)            | 50 ppm<br>241 mg/m <sup>3</sup>    | IE OEL       |
| butanone                             | 78-93-3                                                                                                                                                                      | OELV - 15 min (STEL)          | 300 ppm<br>900 mg/m <sup>3</sup>   | IE OEL       |
|                                      | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body                            |                               |                                    |              |
|                                      |                                                                                                                                                                              | OELV - 8 hrs (TWA)            | 200 ppm<br>600 mg/m <sup>3</sup>   | IE OEL       |

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|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|------------|
|                              | Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body                            |                      |                      |            |
|                              |                                                                                                                                                                              | STEL                 | 300 ppm<br>900 mg/m3 | 2000/39/EC |
|                              | Further information: Indicative                                                                                                                                              |                      |                      |            |
|                              |                                                                                                                                                                              | TWA                  | 200 ppm<br>600 mg/m3 | 2000/39/EC |
|                              | Further information: Indicative                                                                                                                                              |                      |                      |            |
| 4-isocyanatosulphonyltoluene | 4083-64-1                                                                                                                                                                    | OELV - 15 min (STEL) | 0.07 mg/m3 (NCO)     | IE OEL     |
|                              | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis |                      |                      |            |
|                              |                                                                                                                                                                              | OELV - 8 hrs (TWA)   | 0.02 mg/m3 (NCO)     | IE OEL     |
|                              | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis |                      |                      |            |
| hexamethylene-diisocyanate   | 822-06-0                                                                                                                                                                     | STEL                 | 0.02 mg/m3 (NCO)     | 98/24/EC I |
|                              | Further information: Skin, Dermal and respiratory sensitisation, Binding                                                                                                     |                      |                      |            |
|                              |                                                                                                                                                                              | TWA                  | 0.01 mg/m3 (NCO)     | 98/24/EC I |
|                              | Further information: Skin, Dermal and respiratory sensitisation, Binding                                                                                                     |                      |                      |            |
|                              |                                                                                                                                                                              | OELV - 8 hrs (TWA)   | 0.005 ppm (NCO)      | IE OEL     |
|                              | Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis |                      |                      |            |

### 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/m3  |
|                                     | Workers   | Inhalation      | Long-term systemic effects | 1 mg/m3    |
| ethyl acetate                       | Workers   | Inhalation      | Acute systemic effects     | 1468 mg/m3 |
|                                     | Workers   | Inhalation      | Long-term local effects    | 1468 mg/m3 |
|                                     | Workers   | Inhalation      | Long-term systemic effects | 734 mg/m3  |
|                                     | Workers   | Inhalation      | Long-term local effects    | 734 mg/m3  |
|                                     | Consumers | Inhalation      | Acute systemic effects     | 734 mg/m3  |
|                                     | Consumers | Inhalation      | Acute local effects        | 734 mg/m3  |
|                                     | Consumers | Inhalation      | Long-term systemic effects | 367 mg/m3  |

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|                                              |           |            |                            |                   |
|----------------------------------------------|-----------|------------|----------------------------|-------------------|
|                                              | Consumers | Inhalation | Long-term local effects    | 367 mg/m3         |
|                                              | Workers   | Dermal     | Long-term systemic effects | 63 mg/kg bw/day   |
|                                              | Consumers | Dermal     | Long-term systemic effects | 37 mg/kg bw/day   |
|                                              | Consumers | Oral       | Long-term systemic effects | 4.5 mg/kg bw/day  |
| n-butyl acetate                              | Workers   | Inhalation | Acute systemic effects     | 600 mg/m3         |
|                                              | Workers   | Inhalation | Acute local effects        | 600 mg/m3         |
|                                              | Workers   | Inhalation | Long-term systemic effects | 48 mg/m3          |
|                                              | Workers   | Inhalation | Long-term local effects    | 300 mg/m3         |
|                                              | Consumers | Inhalation | Acute systemic effects     | 300 mg/m3         |
|                                              | Consumers | Inhalation | Acute local effects        | 300 mg/m3         |
|                                              | Consumers | Inhalation | Long-term systemic effects | 12 mg/m3          |
|                                              | Consumers | Inhalation | Long-term local effects    | 35.7 mg/m3        |
|                                              | 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   |
| butanone                                     | Consumers | Inhalation | Long-term systemic effects | 106 mg/m3         |
|                                              | Workers   | Inhalation | Long-term systemic effects | 600 mg/m3         |
|                                              | Workers   | Dermal     | Long-term systemic effects | 1161 mg/kg bw/day |
|                                              | Consumers | Dermal     | Long-term systemic effects | 412 mg/kg bw/day  |
|                                              | Consumers | Oral       | Long-term systemic effects | 31 mg/kg bw/day   |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | Workers   | Inhalation | Long-term systemic effects | 147 mg/m3         |
|                                              | Workers   | Dermal     | Long-term systemic effects | 21 mg/kg bw/day   |
|                                              | Consumers | Dermal     | Long-term systemic         | 12.5 mg/kg        |

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|                              |           |            | effects                    | bw/day            |
|------------------------------|-----------|------------|----------------------------|-------------------|
|                              | Consumers | Oral       | Long-term systemic effects | 12.5 mg/kg bw/day |
| 4-isocyanatosulphonyltoluene | Workers   | Inhalation | Long-term systemic effects | 3.24 mg/m3        |
|                              | Consumers | Inhalation | Long-term systemic effects | 0.8 mg/m3         |
|                              | Workers   | Dermal     | Long-term systemic effects | 0.92 mg/kg bw/day |
|                              | Consumers | Dermal     | Long-term systemic effects | 0.46 mg/kg bw/day |
|                              | Consumers | Oral       | Long-term systemic effects | 0.46 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                         |
| ethyl acetate                        | Soil                      | 0.24 mg/kg dry weight (d.w.)   |
|                                      | Marine water              | 0.026 mg/l                     |
|                                      | Fresh water               | 0.26 mg/l                      |
|                                      | Marine sediment           | 0.125 mg/kg dry weight (d.w.)  |
|                                      | Fresh water sediment      | 1.25 mg/kg dry weight (d.w.)   |
|                                      | Sewage treatment plant    | 650 mg/l                       |
|                                      | Intermittent use/release  | 1.65 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                |

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|                                      |                          |                                  |
|--------------------------------------|--------------------------|----------------------------------|
|                                      |                          | weight (d.w.)                    |
|                                      | Sewage treatment plant   | 35.6 mg/l                        |
|                                      | Intermittent use/release | 0.36 mg/l                        |
| butanone                             | Soil                     | 22.5 mg/kg dry weight (d.w.)     |
|                                      | Marine water             | 55.8 mg/l                        |
|                                      | Fresh water              | 55.8 mg/l                        |
|                                      | Marine sediment          | 284.7 mg/kg dry weight (d.w.)    |
|                                      | Fresh water sediment     | 284.74 mg/kg dry weight (d.w.)   |
|                                      | Sewage treatment plant   | 709 mg/l                         |
| [3-(2,3-epoxypropyl)trimethoxysilane | Soil                     | 0.14 mg/kg dry weight (d.w.)     |
|                                      | Marine water             | 0.1 mg/l                         |
|                                      | Fresh water              | 1 mg/l                           |
|                                      | Marine sediment          | 0.36 mg/kg dry weight (d.w.)     |
|                                      | Fresh water sediment     | 3.6 mg/kg dry weight (d.w.)      |
|                                      | Sewage treatment plant   | 10 mg/l                          |
|                                      | Intermittent use/release | 1 mg/l                           |
| 4-isocyanatosulphonyltoluene         | Soil                     | 0.0168 mg/kg dry weight (d.w.)   |
|                                      | Marine water             | 0.003 mg/l                       |
|                                      | Fresh water              | 0.03 mg/l                        |
|                                      | Marine sediment          | 0.0172 mg/kg dry weight (d.w.)   |
|                                      | Fresh water sediment     | 0.172 mg/kg dry weight (d.w.)    |
|                                      | Sewage treatment plant   | 0.4 mg/l                         |
|                                      | Intermittent use/release | 0.3 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

#### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing

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problems.

### Hand protection

Gloves : Viton® (> 0,6 mm; < 240 min); ISO EN374 |  
PE laminate (> 0,1 mm; < 240 min); ISO 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.  
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

Form : liquid

Colour : colourless

Odour : solvent-like

Odour Threshold : No data available

Melting point/freezing point : -86.4 °C (calculation method (principal components, lowest value))

Boiling point/boiling range : 77 °C (calculation method (principal components, lowest value))

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|                                                  |   |                                                                                                                       |
|--------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------|
| Flammability                                     | : | Static-accumulating flammable liquid., Combustible Solids                                                             |
| Upper explosion limit / Upper flammability limit | : | 11.5 %(V)<br>(calculation method (principal components, highest value))                                               |
| Lower explosion limit / Lower flammability limit | : | 1.2 %(V)<br>(calculation method (principal components, highest value))                                                |
| Flash point                                      | : | -4 °C (calculation method (principal components, lowest value))                                                       |
| Ignition temperature                             | : | 404 °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                                                                                                        |
|                                                  |   | substance/mixture is non-polar/aprotic                                                                                |
| Viscosity                                        |   |                                                                                                                       |
| Viscosity, kinematic                             | : | 20.5 mm <sup>2</sup> /s (40 °C)                                                                                       |
| Solubility(ies)                                  |   |                                                                                                                       |
| Water solubility                                 | : | immiscible                                                                                                            |
|                                                  |   | partly soluble                                                                                                        |
| Solubility in other solvents                     | : | 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))                                                |

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(50 °C)

Relative density : 0.93 (calculation method (principal components, highest value))

Density : 0.950 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 and livestock rearing emissions (integrated pollution prevention and control))  
49.21 %

## 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

No hazardous decomposition products are known.

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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.

Not classified due to lack of data.

##### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

##### Components:

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

Acute oral toxicity : LD50 (Rat, female): > 2,500 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity  
The test was conducted according to guideline

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

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
The test was conducted according to guideline

##### ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): >= 5,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1600 ppm  
Exposure time: 8 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): >= 20,000 mg/kg

##### n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): >= 10,760 mg/kg

Acute dermal toxicity : LD50 (Rabbit): >= 5,000 mg/kg

##### butanone:

Acute oral toxicity : LD50 Oral (Rat): > > 2,000 mg/kg

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

Acute dermal toxicity : LD50 (Rabbit): > > 2,000 mg/kg

### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Acute oral toxicity : LD50 (Rat): 8.03625 g/kg  
Method: OECD Test Guideline 401  
The test was conducted equivalent or similar to guideline

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
The test was conducted equivalent or similar to guideline

Acute dermal toxicity : LD50 (Rabbit, male): 4.25 g/kg  
Method: OECD Test Guideline 402  
The test was conducted equivalent or similar to guideline

### **4-isocyanatosulphonyltoluene:**

Acute oral toxicity : LD50 (Rat): 2,330 mg/kg  
Method: OECD Test Guideline 401  
The test was conducted equivalent or similar to guideline

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
The test was conducted according to guideline

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

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

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

Acute dermal toxicity : LD50 (Rat): > 7,000 mg/kg  
Method: OECD Test Guideline 402  
The test was conducted according to guideline

### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.  
Repeated exposure may cause skin dryness or cracking.

### **Product:**

Remarks : Extremely corrosive and destructive to tissue.

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### Components:

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

|         |                                                 |
|---------|-------------------------------------------------|
| Species | : Rabbit                                        |
| Method  | : OECD Test Guideline 404                       |
| Result  | : No skin irritation                            |
| Remarks | : The test was conducted according to guideline |

#### **ethyl acetate:**

|            |                                                         |
|------------|---------------------------------------------------------|
| Assessment | : Repeated exposure may cause skin dryness or cracking. |
|------------|---------------------------------------------------------|

|         |                                                             |
|---------|-------------------------------------------------------------|
| Species | : Rabbit                                                    |
| Method  | : OECD Test Guideline 404                                   |
| Result  | : Mild skin irritation                                      |
| Remarks | : The test was conducted equivalent or similar to guideline |

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

|            |                                                         |
|------------|---------------------------------------------------------|
| Assessment | : Repeated exposure may cause skin dryness or cracking. |
|------------|---------------------------------------------------------|

|         |                                                             |
|---------|-------------------------------------------------------------|
| Species | : Rabbit                                                    |
| Method  | : OECD Test Guideline 404                                   |
| Result  | : No skin irritation                                        |
| Remarks | : The test was conducted equivalent or similar to guideline |

#### **butanone:**

|            |                                                         |
|------------|---------------------------------------------------------|
| Assessment | : Repeated exposure may cause skin dryness or cracking. |
|------------|---------------------------------------------------------|

|         |                                                 |
|---------|-------------------------------------------------|
| Species | : Rabbit                                        |
| Method  | : OECD Test Guideline 404                       |
| Result  | : No skin irritation                            |
| Remarks | : The test was conducted according to guideline |

#### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

|         |                                                             |
|---------|-------------------------------------------------------------|
| Species | : Rabbit                                                    |
| Method  | : OECD Test Guideline 404                                   |
| Result  | : No skin irritation                                        |
| Remarks | : The test was conducted equivalent or similar to guideline |

#### **4-isocyanatosulphonyltoluene:**

|        |              |
|--------|--------------|
| Result | : irritating |
|--------|--------------|

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

|         |                                                 |
|---------|-------------------------------------------------|
| Species | : Rabbit                                        |
| Method  | : OECD Test Guideline 404                       |
| Result  | : Corrosive after 4 hours or less of exposure   |
| Remarks | : The test was conducted according to guideline |

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### Serious eye damage/eye irritation

Causes serious eye damage.  
Causes serious eye damage.

#### Product:

Remarks : May cause irreversible eye damage.

#### Components:

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

|         |                                                 |
|---------|-------------------------------------------------|
| Species | : Rabbit                                        |
| Method  | : OECD Test Guideline 405                       |
| Result  | : No eye irritation                             |
| Remarks | : The test was conducted according to guideline |

##### ethyl acetate:

Result : Eye irritation

##### n-butyl acetate:

|         |                                                 |
|---------|-------------------------------------------------|
| Species | : Rabbit                                        |
| Method  | : OECD Test Guideline 405                       |
| Result  | : No eye irritation                             |
| Remarks | : The test was conducted according to guideline |

##### butanone:

Result : Eye irritation

##### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Result : Corrosive

##### 4-isocyanatosulphonyltoluene:

Result : Eye irritation

##### hexamethylene-di-isocyanate:

|         |                                                 |
|---------|-------------------------------------------------|
| Species | : Rabbit                                        |
| Method  | : OECD Test Guideline 405                       |
| Result  | : Irreversible effects on the eye               |
| Remarks | : The test was conducted according to guideline |

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Skin sensitisation

May cause an allergic skin reaction.

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### Respiratory sensitisation

Not classified based on available information.

### Respiratory sensitisation

Not classified due to lack of data.

### Product:

Remarks : Causes sensitisation.

### Components:

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

Result : Probability or evidence of skin sensitisation in humans

#### ethyl acetate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Test Type       | : Maximisation Test                             |
| Exposure routes | : Skin contact                                  |
| Species         | : Guinea pig                                    |
| Method          | : OECD Test Guideline 406                       |
| Result          | : negative                                      |
| Remarks         | : The test was conducted according to guideline |

Assessment : Not classified due to data which are conclusive although insufficient for classification.

#### n-butyl acetate:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Assessment : Not classified due to data which are conclusive although insufficient for classification.

#### butanone:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Test Type       | : Buehler Test                                  |
| Exposure routes | : Skin contact                                  |
| Species         | : Guinea pig                                    |
| Method          | : OECD Test Guideline 406                       |
| Result          | : negative                                      |
| Remarks         | : The test was conducted according to guideline |

Assessment : Not classified due to data which are conclusive although insufficient for classification.

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### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative  
Remarks : The test was conducted according to guideline

Assessment : Not classified due to data which are conclusive although insufficient for classification.

### **4-isocyanatosulphonyltoluene:**

Result : Probability of respiratory sensitisation in humans based on animal testing

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

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : positive  
Remarks : The test was conducted equivalent or similar to guideline

Exposure routes : Inhalation  
Species : Mouse  
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

Assessment : May cause sensitisation by inhalation.

### **Germ cell mutagenicity**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

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

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
The test was conducted according to guideline

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
The test was conducted according to guideline

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Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
The test was conducted according to guideline

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative  
The test was conducted equivalent or similar to guideline

### ethyl acetate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
The test was conducted equivalent or similar to guideline

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Hamster  
Application Route: oral (gavage)  
Method: OECD Test Guideline 474  
Result: negative  
The test was conducted equivalent or similar to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

### n-butyl acetate:

Genotoxicity in vitro : Test Type: in vitro micronucleus test  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
The test was conducted according to guideline

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471

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Result: negative  
The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: oral (gavage)  
Method: OECD Test Guideline 474  
Result: negative  
The test was conducted according to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

### butanone:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
The test was conducted equivalent or similar to guideline

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative  
The test was conducted equivalent or similar to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: positive  
The test was conducted equivalent or similar to guideline

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: positive  
The test was conducted equivalent or similar to guideline

Genotoxicity in vivo : Test Type: comet assay

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Species: Rat  
Application Route: oral (gavage)  
Method: OECD Test Guideline 489  
Result: positive  
The test was conducted according to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

### 4-isocyanatosulphonyltoluene:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: positive  
The test was conducted according to guideline

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
The test was conducted according to guideline

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: oral (gavage)  
Method: OECD Test Guideline 474  
Result: negative  
The test was conducted according to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

### hexamethylene-di-isocyanate:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 474  
Result: negative  
The test was conducted equivalent or similar to guideline

Germ cell mutagenicity- Assessment : Not classified due to data which are conclusive although insufficient for classification.

### Carcinogenicity

Not classified based on available information.  
Not classified due to lack of data.

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### **Components:**

#### **ethyl acetate:**

|                   |                   |
|-------------------|-------------------|
| Species           | : Mouse           |
| Application Route | : Intraperitoneal |
| Exposure time     | : 1.846154 Months |
| Result            | : negative        |

Carcinogenicity - Assessment : Not classified due to lack of data.

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

Carcinogenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

#### **butanone:**

Carcinogenicity - Assessment : Not classified due to lack of data.

#### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

|                   |                              |
|-------------------|------------------------------|
| Species           | : Mouse, male                |
| Application Route | : Dermal                     |
| Result            | : negative                   |
| Remarks           | : No test guideline followed |

Carcinogenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

#### **4-isocyanatosulphonyltoluene:**

Carcinogenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

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

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Species           | : Rat                                           |
| Application Route | : inhalation (vapour)                           |
| Exposure time     | : 2 yr                                          |
| Method            | : OECD Test Guideline 453                       |
| Result            | : negative                                      |
| Remarks           | : The test was conducted according to guideline |

Carcinogenicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

### **Reproductive toxicity**

Not classified based on available information.  
Not classified due to lack of data.

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### Components:

#### **ethyl acetate:**

|                      |   |                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility | : | Test Type: Reproduction Test<br>Species: Rat, male<br>Application Route: inhalation (vapour)<br>Result: negative<br><br>Test Type: Two-generation reproduction toxicity study<br>Species: Mouse<br>Application Route: oral (drinking water)<br>Method: OECD Test Guideline 416<br>Result: negative<br>The test was conducted equivalent or similar to guideline |
|----------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                               |   |                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on foetal development | : | Test Type: Developmental Toxicity<br>Species: Rat<br>Application Route: Inhalation<br>Result: negative<br>The test was conducted equivalent or similar to guideline<br><br>Test Type: Developmental Toxicity<br>Species: Mouse<br>Application Route: oral (feed)<br>Result: positive<br>The test was conducted equivalent or similar to guideline |
|-------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                    |   |                                                                                                                                      |
|------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------|
| Reproductive toxicity - Assessment | : | Not classified due to data which are conclusive although insufficient for classification.<br><br>Not classified due to lack of data. |
|------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------|

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

|                               |   |                                                                                                                                                                                                                         |
|-------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility          | : | Test Type: Two-generation reproduction toxicity study<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Method: OECD Test Guideline 416<br>Result: negative<br>The test was conducted according to guideline |
| Effects on foetal development | : | Test Type: Developmental Toxicity<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: positive<br>The test was conducted equivalent or similar to guideline                                            |

|                                    |   |                                                                                                                                                                                            |
|------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reproductive toxicity - Assessment | : | Not classified due to data which are conclusive although insufficient for classification.<br><br>Not classified due to data which are conclusive although insufficient for classification. |
|------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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### butanone:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 416  
Result: negative  
The test was conducted equivalent or similar to guideline

Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: oral (drinking water)  
Method: OECD Test Guideline 416  
Result: negative  
The test was conducted equivalent or similar to guideline

Effects on foetal development : Test Type: Developmental Toxicity  
Species: Mouse  
Application Route: inhalation (vapour)  
Result: positive

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to data which are conclusive although insufficient for classification.

### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: oral (gavage)  
Method: OECD Test Guideline 415  
Result: negative  
The test was conducted according to guideline

Effects on foetal development : Test Type: Developmental Toxicity  
Species: Rabbit  
Application Route: oral (gavage)  
Result: negative  
The test was conducted equivalent or similar to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to data which are conclusive although insufficient for classification.

### 4-isocyanatosulphonyltoluene:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat

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Application Route: oral (feed)  
Method: OECD Test Guideline 416  
Result: negative  
The test was conducted according to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to data which are conclusive although insufficient for classification.

### hexamethylene-di-isocyanate:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 422  
Result: negative  
The test was conducted according to guideline

Effects on foetal development : Test Type: Developmental Toxicity  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
The test was conducted according to guideline

Reproductive toxicity - Assessment : Not classified due to data which are conclusive although insufficient for classification.

Not classified due to lack of data.

### STOT - single exposure

May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.

### Components:

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

Assessment : May cause respiratory irritation.

#### ethyl acetate:

Assessment : May cause drowsiness or dizziness.

#### n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

#### butanone:

Assessment : May cause drowsiness or dizziness.

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### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Assessment : Not classified due to data which are conclusive although insufficient for classification.

### **4-isocyanatosulphonyltoluene:**

Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

#### **ethyl acetate:**

Assessment : Not classified due to data which are conclusive although insufficient for classification.

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

Assessment : Not classified due to data which are conclusive although insufficient for classification.

#### **butanone:**

Assessment : Not classified due to data which are conclusive although insufficient for classification.

### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Assessment : Not classified due to data which are conclusive although insufficient for classification.

### **4-isocyanatosulphonyltoluene:**

Assessment : Not classified due to data which are conclusive although insufficient for classification.

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

Assessment : Not classified due to data which are conclusive although insufficient for classification.

### **Aspiration hazard**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

#### **ethyl acetate:**

Not classified due to data which are conclusive although insufficient for classification.

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

Not classified due to data which are conclusive although insufficient for classification.

### **butanone:**

Not classified due to data which are conclusive although insufficient for classification.

### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Not classified due to data which are conclusive although insufficient for classification.

### **4-isocyanatosulphonyltoluene:**

Not classified due to data which are conclusive although insufficient for classification.

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

Not classified due to data which are conclusive although insufficient for classification.

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

Not classified due to lack of data.

### **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:**

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

Toxicity to algae/aquatic : EL50 (Desmodesmus subspicatus (green algae)): > 1,000

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plants mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
The test was conducted equivalent or similar to guideline

EL10 (*Desmodesmus subspicatus* (green algae)): 370 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
The test was conducted equivalent or similar to guideline

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### ethyl acetate:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 230 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : NOEC (*Desmodesmus subspicatus* (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
The test was conducted according to guideline

Toxicity to microorganisms : EC10 (*Photobacterium phosphoreum*): 1,650 mg/l  
Exposure time: 15 min

EC50 (*Photobacterium phosphoreum*): 5,870 mg/l  
Exposure time: 15 min

Toxicity to fish (Chronic toxicity) : NOEC: > 75.6 mg/l  
Exposure time: 32 d  
Species: *Pimephales promelas* (fathead minnow)  
Method: OECD Test Guideline 210  
The test was conducted equivalent or similar to guideline

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2.4 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211  
The test was conducted equivalent or similar to guideline

### n-butyl acetate:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
The test was conducted equivalent or similar to guideline

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

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Method: OECD Test Guideline 202

The test was conducted equivalent or similar to guideline

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

EC50 (Desmodesmus subspicatus (green algae)): >= 647.7 mg/l

Exposure time: 72 h

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 23.2 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
The test was conducted according to guideline

### butanone:

Toxicity to fish : LC50 (Fish): > 1,000 mg/l

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): > 1,000 mg/l

Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (green algae)): 1,010 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201  
The test was conducted according to guideline

EC50 (Pseudokirchneriella subcapitata (green algae)): 1,240 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

The test was conducted according to guideline

Toxicity to microorganisms : EC50 (Bacteria): > 1,000 mg/l

### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 350 mg/l  
Exposure time: 96 h

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h

Toxicity to daphnia and other : NOEC: 100 mg/l

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|         |                | N                |                                 |

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### 4-isocyanatosulphonyltoluene:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
The test was conducted according to guideline

Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (green algae)): 23 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
The test was conducted according to guideline

EC50 (Pseudokirchneriella subcapitata (green algae)): 30 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
The test was conducted according to guideline

### hexamethylene-di-isocyanate:

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
The test was conducted equivalent or similar to guideline

EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
The test was conducted equivalent or similar to guideline

Toxicity to microorganisms : EC10 (activated sludge): 299 mg/l  
Exposure time: 3 h

EC50 (activated sludge): 842 mg/l  
Exposure time: 3 h

## 12.2 Persistence and degradability

### Components:

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

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1 %  
Exposure time: 28 d  
Method: Directive 67/548/EEC Annex V, C.4.E.  
The test was conducted according to guideline

#### ethyl acetate:

Biodegradability : Result: Readily biodegradable.

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|         |                | N                |                                 |

Biodegradation: 69 %

Exposure time: 20 d

### **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  
Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

### **butanone:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
The test was conducted according to guideline

### **[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 37 %  
Exposure time: 28 d  
Method: Regulation (EC) No. 440/2008, Annex, C.4-A  
The test was conducted according to guideline

### **4-isocyanatosulphonyltoluene:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 45 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
The test was conducted according to guideline

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

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 42 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
The test was conducted equivalent or similar to guideline

## 12.3 Bioaccumulative potential

### Components:

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

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Partition coefficient: n-octanol/water : log Pow: > 4  
Calculation method

### ethyl acetate:

Bioaccumulation : Species: Leuciscus idus melanotus (Ide)  
Bioconcentration factor (BCF): 30  
No test guideline followed

Partition coefficient: n-octanol/water : log Pow: 0.6

### n-butyl acetate:

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

Partition coefficient: n-octanol/water : log Pow: 1.81

### butanone:

Partition coefficient: n-octanol/water : log Pow: 0.29

### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Partition coefficient: n-octanol/water : log Pow: 0.5 (20 °C)  
pH: 7

### 4-isocyanatosulphonyltoluene:

Partition coefficient: n-octanol/water : log Pow: 0.6  
Method: OECD Test Guideline 117  
The test was conducted according to guideline

### hexamethylene-di-isocyanate:

Partition coefficient: n-octanol/water : log Pow: 3.2

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

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

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|         |                | N                |                                 |

### 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 : No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS<br>08 01 00, wastes from MFSU and removal of paint and varnish<br>08 01 11, waste paint and varnish containing organic solvents or other hazardous substances<br>15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED<br>15 01 00, packaging (including separately collected municipal packaging waste)<br>15 01 10, packaging containing residues of or contaminated by hazardous substances<br>HP3, Flammable<br>HP4, Irritant - skin irritation and eye damage<br>HP13, Sensitising |

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### 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   |                  |
| IMDG | : 3   |                  |
| IATA | : 3   |                  |

#### 14.4 Packing group

|                              |         |
|------------------------------|---------|
| <b>ADN</b>                   |         |
| Packing group                | : II    |
| Classification Code          | : F1    |
| Hazard Identification Number | : 33    |
| Labels                       | : 3     |
| <b>ADR</b>                   |         |
| Packing group                | : II    |
| Classification Code          | : F1    |
| Hazard Identification Number | : 33    |
| Labels                       | : 3     |
| Tunnel restriction code      | : (D/E) |
| <b>RID</b>                   |         |
| Packing group                | : II    |
| Classification Code          | : F1    |
| Hazard Identification Number | : 33    |

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|         |                | N                |                                 |

Labels : 3

### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-E

### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

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

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Number on list 40

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This substance/mixture shall not be used in aerosol dispensers intended for supply to the general public for entertainment and decorative purposes.

Number on list 74: hexamethylene-di-isocyanate

Number on list 75  
If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

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

Regulation (EU) 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

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 49.21 %

### Other regulations:

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.

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### SECTION 16: Other information

#### Full text of H-Statements

|        |                                                                              |
|--------|------------------------------------------------------------------------------|
| H225   | : Highly flammable liquid and vapour.                                        |
| H226   | : Flammable liquid and vapour.                                               |
| H302   | : Harmful if swallowed.                                                      |
| H315   | : Causes skin irritation.                                                    |
| H317   | : May cause an allergic skin reaction.                                       |
| H318   | : Causes serious eye damage.                                                 |
| 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.                                         |
| H412   | : Harmful to aquatic life with long lasting effects.                         |
| EUH014 | : Reacts violently with water.                                               |
| EUH066 | : Repeated exposure may cause skin dryness or cracking.                      |
| H315   | : Causes skin irritation.                                                    |
| H317   | : May cause an allergic skin reaction.                                       |
| H319   | : Causes serious eye irritation.                                             |
| H334   | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | : May cause respiratory irritation.                                          |

#### Full text of other abbreviations

|                 |                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.      | : Acute toxicity                                                                                                          |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard                                                                                      |
| Eye Dam.        | : Serious eye damage                                                                                                      |
| Eye Irrit.      | : Eye irritation                                                                                                          |
| Flam. Liq.      | : Flammable liquids                                                                                                       |
| Resp. Sens.     | : Respiratory sensitisation                                                                                               |
| Skin Irrit.     | : Skin irritation                                                                                                         |
| Skin Sens.      | : Skin sensitisation                                                                                                      |
| STOT SE         | : Specific target organ toxicity - single exposure                                                                        |
| Skin Irrit.     | : Skin irritation                                                                                                         |
| STOT SE         | : Specific target organ toxicity - single exposure                                                                        |
| Eye Irrit.      | : Eye irritation                                                                                                          |
| Skin Sens.      | : Skin sensitisation                                                                                                      |
| Resp. Sens.     | : Respiratory sensitisation                                                                                               |
| 2000/39/EC      | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values      |
| 2017/164/EU     | : Europe. Commission Directive 2017/164/EU establishing a fourth 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    |
| 98/24/EC I      | : Europe. Chemical Agents Directive - Annex I: Binding occupational exposure limit values                                 |
| IE OEL          | : Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 |

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|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
|                               | and 2                                                            |
| 2000/39/EC / TWA              | : Limit Value - eight hours                                      |
| 2000/39/EC / STEL             | : Short term exposure limit                                      |
| 2017/164/EU / STEL            | : Short term exposure limit                                      |
| 2017/164/EU / TWA             | : Limit Value - eight hours                                      |
| 2019/1831/EU / TWA            | : Limit Value - eight hours                                      |
| 2019/1831/EU / STEL           | : Short term exposure limit                                      |
| 98/24/EC I / STEL             | : Limit values Short-term                                        |
| 98/24/EC I / TWA              | : Limit values 8 hours                                           |
| IE OEL / OELV - 8 hrs (TWA)   | : Occupational exposure limit value (8-hour reference period)    |
| IE OEL / OELV - 15 min (STEL) | : Occupational exposure limit value (15-minute reference period) |

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

### Further information

#### Classification of the mixture:

|              |      |
|--------------|------|
| Flam. Liq. 2 | H225 |
| Eye Dam. 1   | H318 |

#### Classification procedure:

Based on product data or assessment  
Calculation method

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|              |      |                    |
|--------------|------|--------------------|
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3    | H336 | Calculation method |
| STOT SE 3    | H335 | Calculation method |

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