

**MOBIHEL 2K HARDENER 750W**

Version 1.1      Revision Date: 10.09.2025      SDS Number: MAT000477693  
JO/EN

Date of last issue: 01.12.2023  
Date of first issue: 01.12.2023

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : MOBIHEL 2K HARDENER 750W  
Product code : 47769302

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

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

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

Company : 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**

Emergency telephone number: 911

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 2      H225: Highly flammable liquid and vapour.  
Eye irritation, Category 2      H319: Causes serious eye irritation.  
Skin sensitisation, Category 1      H317: May cause an allergic skin reaction.  
Carcinogenicity, Category 2      H351: Suspected of causing cancer.

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Reproductive toxicity, Category 2

H361d: Suspected of damaging the unborn child.

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

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

## 2.2 Label elements

### Classification (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.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H361d Suspected of damaging the unborn child.

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

Precautionary statements :

#### Prevention:

P201 Obtain special instructions before use.  
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.

#### Response:

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  
4-methylpentan-2-one  
toluene  
4-isocyanatosulphonyltoluene  
hexamethylene-di-isocyanate

### Additional Labelling

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**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.

**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 diisocyanate, oligomers | 28182-81-2<br><br>500-060-2<br>01-2119485796-17               | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory system)                                                                                    | >= 30 - < 50             |
| ethylacetate                          | 141-78-6<br><br>205-500-4<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 system)                                                                                | >= 20 - < 30             |
| n-butyl acetate                       | 123-86-4<br><br>204-658-1<br>607-025-00-1<br>01-2119485493-29 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)                                                                                                      | >= 10 - < 20             |
| 2-butanone                            | 78-93-3<br><br>201-159-0<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 system)                                                                                | >= 10 - < 20             |
| 4-methylpentan-2-one                  | 108-10-1<br><br>203-550-1<br>606-004-00-4<br>01-2119473980-30 | Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>Eye Irrit. 2; H319<br>Carc. 2; H351<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory sys- | >= 10 - < 20             |

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|                               |                                                            |                                                                                                                                                                                             |                    |
|-------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| toluene                       | 108-88-3<br>203-625-9<br>601-021-00-3<br>01-2119471310-51  | tem)<br>Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412 | $\geq 3 - < 10$    |
| p-toluenesulphonyl isocyanate | 4083-64-1<br>223-810-8<br>615-012-00-7<br>01-2119980050-47 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1;<br>H334<br>STOT SE 3; H335<br>(Respiratory sys-<br>tem)                                                                         | $\geq 0.1 - < 1$   |
| hexamethylene diisocyanate    | 822-06-0<br>212-485-8<br>615-011-00-1<br>01-2119457571-37  | Acute Tox. 4; H302<br>Acute Tox. 2; H330<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1;<br>H334<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>(Respiratory sys-<br>tem)       | $\geq 0.1 - < 0.5$ |

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control centre immediately.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.

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Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Suspected of damaging the unborn child.  
Repeated exposure may cause skin dryness or cracking.

May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Suspected of damaging the unborn child.  
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  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

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

Hazardous combustion products : No hazardous combustion products are known

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### 5.3 Advice for firefighters

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

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

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
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 ap-

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plication area.

Take precautionary measures against static discharges.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Open drum carefully as content may be under pressure.  
 Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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 in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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

### 7.3 Specific end use(s)

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

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                          | CAS-No.    | Value type (Form of exposure) | Control parameters           | Basis      |
|-------------------------------------|------------|-------------------------------|------------------------------|------------|
| Hexamethylene-diisocyanate, polymer | 28182-81-2 | TWA                           | 0.01 mg/m <sup>3</sup> (NCO) | 98/24/EC I |

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|                             |          |      |                                    |                  |
|-----------------------------|----------|------|------------------------------------|------------------|
|                             |          | STEL | 0.02 mg/m <sup>3</sup><br>(NCO)    | 98/24/EC I       |
| ethyl acetate               | 141-78-6 | STEL | 400 ppm<br>1,468 mg/m <sup>3</sup> | 2017/164/EU      |
|                             |          | TWA  | 200 ppm<br>734 mg/m <sup>3</sup>   | 2017/164/EU      |
| n-butyl acetate             | 123-86-4 | STEL | 150 ppm<br>723 mg/m <sup>3</sup>   | 2019/1831/E<br>U |
|                             |          | TWA  | 50 ppm<br>241 mg/m <sup>3</sup>    | 2019/1831/E<br>U |
| butanone                    | 78-93-3  | TWA  | 200 ppm<br>600 mg/m <sup>3</sup>   | 2000/39/EC       |
|                             |          | STEL | 300 ppm<br>900 mg/m <sup>3</sup>   | 2000/39/EC       |
| 4-methylpentan-2-one        | 108-10-1 | TWA  | 20 ppm<br>83 mg/m <sup>3</sup>     | 2000/39/EC       |
|                             |          | STEL | 50 ppm<br>208 mg/m <sup>3</sup>    | 2000/39/EC       |
| toluene                     | 108-88-3 | TWA  | 50 ppm<br>192 mg/m <sup>3</sup>    | 2006/15/EC       |
|                             |          | STEL | 100 ppm<br>384 mg/m <sup>3</sup>   | 2006/15/EC       |
| hexamethylene-di-isocyanate | 822-06-0 | TWA  | 0.01 mg/m <sup>3</sup><br>(NCO)    | 98/24/EC I       |
|                             |          | STEL | 0.02 mg/m <sup>3</sup><br>(NCO)    | 98/24/EC I       |

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

| Substance name                       | End Use   | Exposure routes | Potential health effects   | Value                  |
|--------------------------------------|-----------|-----------------|----------------------------|------------------------|
| Hexamethylene-di-isocyanate, polymer | Workers   | Inhalation      | Long-term local effects    | 0.5 mg/m <sup>3</sup>  |
|                                      | Workers   | Inhalation      | Long-term systemic effects | 1 mg/m <sup>3</sup>    |
| ethyl acetate                        | Workers   | Inhalation      | Acute systemic effects     | 1468 mg/m <sup>3</sup> |
|                                      | Workers   | Inhalation      | Long-term local effects    | 1468 mg/m <sup>3</sup> |
|                                      | Workers   | Inhalation      | Long-term systemic effects | 734 mg/m <sup>3</sup>  |
|                                      | Workers   | Inhalation      | Long-term local effects    | 734 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Acute systemic effects     | 734 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Acute local effects        | 734 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Long-term systemic effects | 367 mg/m <sup>3</sup>  |
|                                      | Consumers | Inhalation      | Long-term local effects    | 367 mg/m <sup>3</sup>  |

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|                      |           |            |                            |                        |
|----------------------|-----------|------------|----------------------------|------------------------|
|                      | 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/m <sup>3</sup>  |
|                      | Workers   | Inhalation | Acute local effects        | 600 mg/m <sup>3</sup>  |
|                      | Workers   | Inhalation | Long-term systemic effects | 48 mg/m <sup>3</sup>   |
|                      | Workers   | Inhalation | Long-term local effects    | 300 mg/m <sup>3</sup>  |
|                      | Consumers | Inhalation | Acute systemic effects     | 300 mg/m <sup>3</sup>  |
|                      | Consumers | Inhalation | Acute local effects        | 300 mg/m <sup>3</sup>  |
|                      | Consumers | Inhalation | Long-term systemic effects | 12 mg/m <sup>3</sup>   |
|                      | Consumers | Inhalation | Long-term local effects    | 35.7 mg/m <sup>3</sup> |
|                      | Consumers | Dermal     | Long-term systemic effects | 3.4 mg/kg bw/day       |
|                      | Consumers | Dermal     | Acute systemic effects     | 6 mg/kg bw/day         |
|                      | Consumers | Oral       | Long-term systemic effects | 2 mg/kg bw/day         |
|                      | Consumers | Oral       | Acute systemic effects     | 2 mg/kg bw/day         |
|                      | Workers   | Dermal     | Long-term systemic effects | 7 mg/kg bw/day         |
|                      | Workers   | Dermal     | Acute systemic effects     | 11 mg/kg bw/day        |
| butanone             | Consumers | Inhalation | Long-term systemic effects | 106 mg/m <sup>3</sup>  |
|                      | Workers   | Inhalation | Long-term systemic effects | 600 mg/m <sup>3</sup>  |
|                      | 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        |
| 4-methylpentan-2-one | Consumers | Oral       | Long-term systemic effects | 4.2 mg/kg bw/day       |
| toluene              | Workers   | Inhalation | Long-term systemic effects | 192 mg/m <sup>3</sup>  |
|                      | Workers   | Inhalation | Long-term local effects    | 192 mg/m <sup>3</sup>  |
|                      | Consumers | Inhalation | Acute systemic effects     | 226 mg/m <sup>3</sup>  |

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|                              |           |            |                            |                         |
|------------------------------|-----------|------------|----------------------------|-------------------------|
|                              | Consumers | Inhalation | Acute local effects        | 226 mg/m <sup>3</sup>   |
| 4-isocyanatosulphonyltoluene | Workers   | Inhalation | Long-term systemic effects | 3.24 mg/m <sup>3</sup>  |
|                              | Consumers | Inhalation | Long-term systemic effects | 0.8 mg/m <sup>3</sup>   |
|                              | 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-diisocyanate   | Workers   | Inhalation | Long-term systemic effects | 0.035 mg/m <sup>3</sup> |
|                              | Workers   | Inhalation | Acute systemic effects     | 0.07 mg/m <sup>3</sup>  |
|                              | Workers   | Inhalation | Long-term local effects    | 0.035 mg/m <sup>3</sup> |
|                              | Workers   | Inhalation | Acute local effects        | 0.07 mg/m <sup>3</sup>  |

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

| Substance name                      | Environmental Compartment | Value                          |
|-------------------------------------|---------------------------|--------------------------------|
| Hexamethylene-diisocyanate, 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                       |
| n-butyl acetate                     | Intermittent use/release  | 1.65 mg/l                      |
|                                     | Soil                      | 0.0903 mg/kg dry weight (d.w.) |
|                                     | Marine water              | 0.018 mg/l                     |
|                                     | Fresh water               | 0.18 mg/l                      |
|                                     | Marine sediment           | 0.0981 mg/kg dry weight (d.w.) |
|                                     | Fresh water sediment      | 0.981 mg/kg dry weight (d.w.)  |

# SAFETY DATA SHEET



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|                              |                          |                                  |
|------------------------------|--------------------------|----------------------------------|
|                              | 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                         |
| 4-methylpentan-2-one         | Soil                     | 1.3 mg/kg dry weight (d.w.)      |
|                              | Marine water             | 0.06 mg/l                        |
|                              | Fresh water              | 0.6 mg/l                         |
|                              | Marine sediment          | 0.83 mg/kg dry weight (d.w.)     |
|                              | Fresh water sediment     | 8.27 mg/kg dry weight (d.w.)     |
|                              | Sewage treatment plant   | 27.5 mg/l                        |
| toluene                      | Soil                     | 2.89 mg/kg dry weight (d.w.)     |
|                              | Marine water             | 0.68 mg/l                        |
|                              | Fresh water              | 0.68 mg/l                        |
|                              | Marine sediment          | 16.39 mg/kg dry weight (d.w.)    |
|                              | Fresh water sediment     | 16.39 mg/kg dry weight (d.w.)    |
|                              | Sewage treatment plant   | 13.61 mg/l                       |
|                              | Intermittent use/release | 0.68 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                        |

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Intermittent use/release

0.774 mg/l

**8.2 Exposure controls****Personal protective equipment**

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

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); ISO EN374 |  
 butyl-rubber (> 0,6 mm; < 240 min); ISO EN374 |  
 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.

Filter type : Organic vapour type (A)

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance : liquid  
 Colour : colourless  
 Odour : solvent-like  
 Odour Threshold : No data available  
 pH : Not applicable

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|                                                  |                                                                                                                         |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Melting point/freezing point                     | : -95.0 °C<br>(calculation method (principal components, lowest value))                                                 |
| Boiling point/boiling range                      | : 77 °C (calculation method (principal components, lowest value))                                                       |
| Flash point                                      | : -4 °C (calculation method (principal components, lowest value))                                                       |
| 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))                                                |
| Vapour pressure                                  | : < 1,100 hPa (calculation method (principal components, highest value))<br><br>(50 °C)                                 |
| Relative vapour density                          | : No data available                                                                                                     |
| Relative density                                 | : No data available                                                                                                     |
| Density                                          | : 0.950 g/cm <sup>3</sup>                                                                                               |
| Solubility(ies)                                  |                                                                                                                         |
| Water solubility                                 | : immiscible, partly soluble                                                                                            |
| Solubility in other solvents                     | : Description: miscible with most organic solvents                                                                      |
| Partition coefficient: n-octanol/water           | : log Pow: 2.65 (calculation method (principal components, highest 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. |
| Viscosity                                        |                                                                                                                         |
| Viscosity, kinematic                             | : > 20.5 mm <sup>2</sup> /s (40 °C)                                                                                     |

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Explosive properties : Not applicable

Oxidizing properties : Sustains combustion

**9.2 Other information**

No data available  
VOC : (Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control))  
61.48 %

---

**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.

---

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****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

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Method: Calculation method**Components:****Hexamethylene-di-isocyanate, polymer:**

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

**ethyl acetate:**Acute oral toxicity : LD50 Oral (Rat):  $\geq 5,620$  mg/kgAcute inhalation toxicity : LC50 (Rat): 1600 ppm  
Exposure time: 8 h  
Test atmosphere: vapourAcute dermal toxicity : LD50 (Rabbit):  $\geq 20,000$  mg/kg**n-butyl acetate:**Acute oral toxicity : LD50 Oral (Rat):  $\geq 10,760$  mg/kgAcute dermal toxicity : LD50 (Rabbit):  $\geq 5,000$  mg/kg**butanone:**Acute oral toxicity : LD50 Oral (Rat):  $> > 2,000$  mg/kgAcute inhalation toxicity : LC50 (Rat):  $> 5$  mg/l  
Test atmosphere: vapourAcute dermal toxicity : LD50 (Rabbit):  $> > 2,000$  mg/kg**4-methylpentan-2-one:**Acute oral toxicity : LD50 Oral (Rat):  $> > 2,000$  mg/kgAcute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Test atmosphere: vapour  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008Acute dermal toxicity : LD50 (Rabbit):  $> > 2,000$  mg/kg**toluene:**Acute oral toxicity : LD50 Oral (Rat):  $> 5,000$  mg/kgAcute inhalation toxicity : LC50 (Rat):  $> 28$  mg/l  
Exposure time: 4 h

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Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): &gt; 5,000 mg/kg

**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.

**Skin corrosion/irritation**Repeated exposure may cause skin dryness or cracking.  
Repeated exposure may cause skin dryness or cracking.**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**Components:****toluene:**

Result : irritating

**4-isocyanatosulphonyltoluene:**

Result : irritating

**Serious eye damage/eye irritation**Causes serious eye irritation.  
Causes serious eye irritation.**Product:**

Remarks : May cause irreversible eye damage.

**Components:****ethyl acetate:**

Result : Eye irritation

**butanone:**

Result : Eye irritation

**4-methylpentan-2-one:**

Result : Eye irritation

**4-isocyanatosulphonyltoluene:**

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Result : Eye irritation

**Respiratory or skin sensitisation****Skin sensitisation**

May cause an allergic skin reaction.

**Skin sensitisation**

May cause an allergic skin reaction.

**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

**4-isocyanatosulphonyltoluene:**

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

**Germ cell mutagenicity**

Not classified based on available information.

Not classified due to lack of data.

**Carcinogenicity**

Suspected of causing cancer.

Suspected of causing cancer.

**Components:****4-methylpentan-2-one:**

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

**Reproductive toxicity**

Suspected of damaging the unborn child.

Suspected of damaging the unborn child.

**Components:**

**toluene:**

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Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility ,and/or on development, based on animal experiments.

**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.

**4-methylpentan-2-one:**

Assessment : May cause respiratory irritation.

**toluene:**

Assessment : May cause drowsiness or dizziness.

**4-isocyanatosulphonyltoluene:**

Assessment : May cause respiratory irritation.

**STOT - repeated exposure**

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

**Components:****toluene:**

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

**Aspiration toxicity**

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

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May be fatal if swallowed and enters airways.

**Further information****Product:**

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

**SECTION 12: Ecological information****12.1 Toxicity****Components:****n-butyl acetate:**

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

EC50 (Desmodesmus subspicatus (green algae)):  $\geq$  647.7 mg/l  
Exposure time: 72 hToxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h**butanone:**

Toxicity to fish : LC50 (Fish): &gt; 1,000 mg/l

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

Toxicity to microorganisms : EC50 (Bacteria): &gt; 1,000 mg/l

**4-methylpentan-2-one:**Toxicity to fish : LC50 (Fish):  $\geq$  100 - 1,000 mg/lToxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)):  $\geq$  100 - 1,000 mg/lToxicity to microorganisms : EC50 (Bacteria):  $\geq$  100 - 1,000 mg/l

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**toluene:****Ecotoxicology Assessment**

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

**12.2 Persistence and degradability****Components:****n-butyl acetate:**Biodegradability : Result: Biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301DStability in water : Degradation half life: 78 d  
pH: 8  
Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

**12.3 Bioaccumulative potential****Components:****ethyl acetate:**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**4-methylpentan-2-one:**Partition coefficient: n-  
octanol/water : log Pow: 1.19**toluene:**Partition coefficient: n-  
octanol/water : log Pow: 2.65

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**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment****Product:**

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

**12.6 Other adverse effects****Product:**

Endocrine disrupting potential : 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.

Additional ecological information : No data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

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

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**SECTION 14: Transport information****14.1 UN number**

ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263

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

**14.4 Packing group**

**ADN**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

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

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 364

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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 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****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.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.

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H317 : May cause an allergic skin reaction.  
 H319 : Causes serious eye irritation.  
 H330 : Fatal if inhaled.  
 H332 : Harmful if inhaled.  
 H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 : May cause respiratory irritation.  
 H336 : May cause drowsiness or dizziness.  
 H351 : Suspected of causing cancer.  
 H361d : Suspected of damaging the unborn child.  
 H373 : May cause damage to organs through prolonged or repeated exposure.  
 H412 : Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity  
 Aquatic Chronic : Long-term (chronic) aquatic hazard  
 Asp. Tox. : Aspiration hazard  
 Carc. : Carcinogenicity  
 Eye Irrit. : Eye irritation  
 Flam. Liq. : Flammable liquids  
 Repr. : Reproductive toxicity  
 Resp. Sens. : Respiratory sensitisation  
 Skin Irrit. : Skin irritation  
 Skin Sens. : Skin sensitisation  
 STOT RE : Specific target organ toxicity - repeated exposure  
 STOT SE : Specific target organ toxicity - single exposure  
 2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
 2006/15/EC : Europe. 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  
 2000/39/EC / TWA : Limit Value - eight hours  
 2000/39/EC / STEL : Short term exposure limit  
 2006/15/EC / TWA : Limit Value - eight hours  
 2006/15/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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-

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

**Further information****Classification of the mixture:**

|              |       |
|--------------|-------|
| Flam. Liq. 2 | H225  |
| Eye Irrit. 2 | H319  |
| Skin Sens. 1 | H317  |
| Carc. 2      | H351  |
| Repr. 2      | H361d |
| STOT SE 3    | H335  |
| STOT SE 3    | H336  |

**Classification procedure:**

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

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

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