# Safety Data Sheet according to Regulation (EC) No 1907/2006



SDS No. : 169739
V009.0

LOCTITE STYCAST PC 18M known as HYSOL PC18M GAL

Revision: 15.11.2019
printing date: 19.11.2019
Replaces version from: 26.03.2019

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

**1.1. Product identifier**
LOCTITE STYCAST PC 18M known as HYSOL PC18M GAL

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
1-component-polyurethane adhesive

**1.3. Details of the supplier of the safety data sheet**
Henkel Belgium N.V.
Esplanade 1
1020 Brussels

Belgium

Phone: +32 (2) 421 2711
Fax-no.: +32 (2) 420 7025

ua-productsafety.uk@henkel.com

**1.4. Emergency telephone number**
24 Hours Emergency Tel: +44 (0)1442 278497

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Classification (CLP):**

| | |
|---|---|
| Flammable liquids | Category 3 |
| H226 Flammable liquid and vapor. | |
| Acute toxicity | Category 4 |
| H332 Harmful if inhaled. | |
| Route of Exposure: Inhalation | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Respiratory sensitizer | Category 1 |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H335 May cause respiratory irritation. | |
| Target organ: respiratory tract irritation | |
| Specific target organ toxicity - single exposure | Category 3 |
| H336 May cause drowsiness or dizziness. | |
| Target organ: Central nervous system | |
| Specific target organ toxicity - repeated exposure | Category 2 |
| H373 May cause damage to organs through prolonged or repeated exposure. | |

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**

**Contains** Methoxypropyl acetate 2-

Xylene - mixture of isomeres

ethylbenzene

m-Tolylidene diisocyanate

**Signal word:** Danger

**Hazard statement:**
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement: Prevention**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapors.

**Precautionary statement: Response**
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/…
P337+P313 If eye irritation persists: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**Precautionary statement: Storage**
P403+P235 Store in a well-ventilated place. Keep cool.

**2.3. Other hazards**
None if used properly.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General chemical description:**
Solvent based coating
**Base substances of preparation:**
polymers
organic solvent

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No. | EC Number<br>REACH-Reg No. | content | Classification |
|---|---|---|---|
| Xylene - mixture of isomeres<br>1330-20-7 | 215-535-7<br>01-2119488216-32 | 10- 20 % | Asp. Tox. 1<br>H304<br>Acute Tox. 4; Inhalation<br>H332<br>Acute Tox. 4; Dermal<br>H312<br>Skin Irrit. 2<br>H315<br>Flam. Liq. 3<br>H226<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>STOT RE 2<br>H373 |
| Methoxypropyl acetate 2-<br>108-65-6 | 203-603-9<br>01-2119475791-29 | 25- 50 % | Flam. Liq. 3<br>H226<br>STOT SE 3<br>H336 |
| ethylbenzene<br>100-41-4 | 202-849-4<br>01-2119489370-35 | 5- < 10 % | Flam. Liq. 2<br>H225<br>Acute Tox. 4<br>H332<br>Asp. Tox. 1<br>H304<br>STOT RE 2<br>H373<br>Aquatic Chronic 3<br>H412<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>STOT SE 3<br>H336 |
| m-Tolylidene diisocyanate<br>26471-62-5 | 247-722-4<br>01-2119454791-34 | 0,1- < 1 % | Acute Tox. 1<br>H330<br>Carc. 2<br>H351<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>Skin Irrit. 2<br>H315<br>Resp. Sens. 1<br>H334<br>Skin Sens. 1<br>H317<br>Aquatic Chronic 3<br>H412 |
| Toluene<br>108-88-3 | 203-625-9<br>01-2119471310-51 | 0,3- < 1 % | Flam. Liq. 2<br>H225<br>Repr. 2<br>H361d<br>Asp. Tox. 1<br>H304<br>STOT RE 2; Inhalation<br>H373<br>Skin Irrit. 2<br>H315<br>STOT SE 3; Inhalation<br>H336<br>Aquatic Chronic 3<br>H412 |

**For full text of the H - statements and other abbreviations see section 16 "Other information".**
**Substances without classification may have community workplace exposure limits available.**

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

Inhalation:
Move to fresh air, consult doctor if complaint persists.
Delayed effects possible after inhalation.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
Immediate medical treatment necessary.

**4.2. Most important symptoms and effects, both acute and delayed**
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

**4.3. Indication of any immediate medical attention and special treatment needed**
See section: Description of first aid measures

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**
**Suitable extinguishing media:**
Carbon dioxide, foam, powder
Fine water spray

**Extinguishing media which must not be used for safety reasons:**
Water jet (solvent-containing product).

**5.2. Special hazards arising from the substance or mixture**
Can form explosive gas/air mixtures.
In case of fire toxic gases can be released.

**5.3. Advice for firefighters**
Keep personnel upwind of fire.
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Additional information:**
In case of fire, keep containers cool with water spray.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Keep unprotected persons away.
Ensure adequate ventilation.
Avoid contact with skin and eyes.
Wear protective equipment.
Keep away from sources of ignition.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.
Collect contaminated washing water for appropriate disposal.
Inform authorities in the event of product spillage to water courses or sewage systems.

**6.3. Methods and material for containment and cleaning up**
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up.
Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.
Do not spray onto flames or red-hot objects.
Wash hands before breaks and immediately after handling the product.
Avoid skin and eye contact.
See advice in section 8

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Good industrial hygiene practices should be observed.

**7.2. Conditions for safe storage, including any incompatibilities**
Store in sealed original container.
Store in a cool, dry place.
Must be stored in a room with spill collection facilities.
Keep away from heat and direct sunlight.
Take precautionary measures against static discharges during storage and transport.
Do not store near sources of heat or ignition, or reactive materials.
Do not expose to direct heat.
Refer to Technical Data Sheet

**7.3. Specific end use(s)**
1-component-polyurethane adhesive

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits**

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| 2-Methoxy-1-methylethyl acetate 108-65-6 [2-METHOXY-1-METHYLETHYLACETATE] | | | Skin designation: | Can be absorbed through the skin. | ECTLV |
| 2-Methoxy-1-methylethyl acetate 108-65-6 [1-METHOXYPROPYL ACETATE] | 100 | 548 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| 2-Methoxy-1-methylethyl acetate 108-65-6 [1-METHOXYPROPYL ACETATE] | 50 | 274 | Time Weighted Average (TWA): | | EH40 WEL |
| 2-Methoxy-1-methylethyl acetate 108-65-6 [1-METHOXYPROPYL ACETATE] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| 2-Methoxy-1-methylethyl acetate 108-65-6 [2-METHOXY-1-METHYLETHYLACETATE] | 100 | 550 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| 2-Methoxy-1-methylethyl acetate 108-65-6 [2-METHOXY-1-METHYLETHYLACETATE] | 50 | 275 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED ISOMERS] | 100 | 441 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED ISOMERS] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Xylene 1330-20-7 [XYLENE, O-, M-, P- OR MIXED ISOMERS] | 50 | 220 | Time Weighted Average (TWA): | | EH40 WEL |
| Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE] | 50 | 221 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Xylene 1330-20-7 [XYLENE, MIXED ISOMERS, PURE] | 100 | 442 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Ethylbenzene 100-41-4 [ETHYLBENZENE] | 125 | 552 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Ethylbenzene 100-41-4 [ETHYLBENZENE] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Ethylbenzene 100-41-4 [ETHYLBENZENE] | 100 | 441 | Time Weighted Average (TWA): | | EH40 WEL |
| Ethylbenzene 100-41-4 [ETHYLBENZENE] | 100 | 442 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Ethylbenzene 100-41-4 [ETHYLBENZENE] | 200 | 884 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| m-Tolylidene diisocyanate 26471-62-5 [ISOCYANATES, ALL (AS -NCO)] | | 0,07 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| m-Tolylidene diisocyanate 26471-62-5 [ISOCYANATES, ALL (AS -NCO)] | | 0,02 | Time Weighted Average (TWA): | | EH40 WEL |
| Toluene 108-88-3 | 50 | 191 | Time Weighted Average (TWA): | | EH40 WEL |

| | | | | | |
|---|---|---|---|---|---|
| [TOLUENE] | | | | | |
| Toluene<br>108-88-3<br>[TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Toluene<br>108-88-3<br>[TOLUENE] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Toluene<br>108-88-3<br>[TOLUENE] | 50 | 192 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Toluene<br>108-88-3<br>[TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |

**Occupational Exposure Limits**

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m$^3$ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| 2-Methoxy-1-methylethyl acetate<br>108-65-6<br>[2-METHOXY-1-METHYLETHYLACETATE] | | | Skin designation: | Can be absorbed through the skin. | ECTLV |
| 2-Methoxy-1-methylethyl acetate<br>108-65-6<br>[2-METHOXY-1-METHYLETHYLACETATE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| 2-Methoxy-1-methylethyl acetate<br>108-65-6<br>[2-METHOXY-1-METHYLETHYLACETATE] | 50 | 275 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| 2-Methoxy-1-methylethyl acetate<br>108-65-6<br>[2-METHOXY-1-METHYLETHYLACETATE] | 100 | 550 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| 2-Methoxy-1-methylethyl acetate<br>108-65-6<br>[2-METHOXY-1-METHYLETHYLACETATE] | 50 | 275 | Time Weighted Average (TWA): | Indicative | ECTLV |
| 2-Methoxy-1-methylethyl acetate<br>108-65-6<br>[2-METHOXY-1-METHYLETHYLACETATE] | 100 | 550 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |
| Xylene<br>1330-20-7<br>[XYLENE, MIXED ISOMERS] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Xylene<br>1330-20-7<br>[XYLENE, MIXED ISOMERS] | 50 | 221 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Xylene<br>1330-20-7<br>[XYLENE, MIXED ISOMERS, PURE] | 50 | 221 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Xylene<br>1330-20-7<br>[XYLENE, MIXED ISOMERS, PURE] | 100 | 442 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Xylene<br>1330-20-7<br>[XYLENE, MIXED ISOMERS] | 100 | 442 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |
| Ethylbenzene<br>100-41-4<br>[ETHYLBENZENE] | 100 | 442 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Ethylbenzene<br>100-41-4<br>[ETHYLBENZENE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Ethylbenzene<br>100-41-4<br>[ETHYLBENZENE] | 100 | 442 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Ethylbenzene<br>100-41-4<br>[ETHYLBENZENE] | 200 | 884 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Ethylbenzene<br>100-41-4<br>[ETHYLBENZENE] | 200 | 884 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |

| | | | | | |
|---|---|---|---|---|---|
| m-Tolylidene diisocyanate<br>26471-62-5<br>[ISOCYANATES (ALL, AS -NCO)] | | 0,02 | Time Weighted Average (TWA): | | IR_OEL |
| m-Tolylidene diisocyanate<br>26471-62-5<br>[ISOCYANATES (ALL, AS -NCO)] | | 0,07 | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |
| Toluene<br>108-88-3<br>[TOLUENE] | 50 | 192 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Toluene<br>108-88-3<br>[TOLUENE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Toluene<br>108-88-3<br>[TOLUENE] | 50 | 192 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Toluene<br>108-88-3<br>[TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Toluene<br>108-88-3<br>[TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |

**Predicted No-Effect Concentration (PNEC):**

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| Xylene - mixture of isomeres 1330-20-7 | aqua (freshwater) | | 0,327 mg/l | | | | |
| Xylene - mixture of isomeres 1330-20-7 | sediment (freshwater) | | | | 12,46 mg/kg | | |
| Xylene - mixture of isomeres 1330-20-7 | Soil | | | | 2,31 mg/kg | | |
| Xylene - mixture of isomeres 1330-20-7 | aqua (marine water) | | 0,327 mg/l | | | | |
| Xylene - mixture of isomeres 1330-20-7 | aqua (intermittent releases) | | 0,327 mg/l | | | | |
| Xylene - mixture of isomeres 1330-20-7 | sewage treatment plant (STP) | | 6,58 mg/l | | | | |
| Xylene - mixture of isomeres 1330-20-7 | sediment (marine water) | | | | 12,46 mg/kg | | |
| 1-Methoxy-2-propyl 108-65-6 | aqua (freshwater) | | 0,635 mg/l | | | | |
| 1-Methoxy-2-propyl 108-65-6 | aqua (marine water) | | 0,0635 mg/l | | | | |
| 1-Methoxy-2-propyl 108-65-6 | aqua (intermittent releases) | | 6,35 mg/l | | | | |
| 1-Methoxy-2-propyl 108-65-6 | sewage treatment plant (STP) | | 100 mg/l | | | | |
| 1-Methoxy-2-propyl 108-65-6 | sediment (freshwater) | | | | 3,29 mg/kg | | |
| 1-Methoxy-2-propyl 108-65-6 | sediment (marine water) | | | | 0,329 mg/kg | | |
| 1-Methoxy-2-propyl 108-65-6 | Soil | | | | 0,29 mg/kg | | |
| ethylbenzene 100-41-4 | aqua (intermittent releases) | | 0,1 mg/l | | | | |
| ethylbenzene 100-41-4 | aqua (freshwater) | | 0,1 mg/l | | | | |
| ethylbenzene 100-41-4 | sediment (marine water) | | | | 1,37 mg/kg | | |
| ethylbenzene 100-41-4 | sediment (freshwater) | | | | 13,7 mg/kg | | |
| ethylbenzene 100-41-4 | sewage treatment plant (STP) | | 9,6 mg/l | | | | |
| ethylbenzene 100-41-4 | aqua (marine water) | | 0,01 mg/l | | | | |
| ethylbenzene 100-41-4 | Soil | | | | 2,68 mg/kg | | |
| ethylbenzene 100-41-4 | oral | | | | 20 mg/kg | | |
| m-Tolylidene diisocyanate 26471-62-5 | aqua (freshwater) | | 0,0125 mg/l | | | | |
| m-Tolylidene diisocyanate 26471-62-5 | aqua (marine water) | | 0,00125 mg/l | | | | |
| m-Tolylidene diisocyanate 26471-62-5 | Soil | | | | 1 mg/kg | | |
| m-Tolylidene diisocyanate 26471-62-5 | sewage treatment plant (STP) | | 1 mg/l | | | | |
| m-Tolylidene diisocyanate 26471-62-5 | aqua (intermittent releases) | | 0,125 mg/l | | | | |
| Toluene 108-88-3 | aqua (freshwater) | | 0,68 mg/l | | | | |
| Toluene 108-88-3 | sediment (freshwater) | | | | 16,39 mg/kg | | |
| Toluene 108-88-3 | sediment (marine water) | | | | 16,39 mg/kg | | |
| Toluene | Soil | | | | 2,89 mg/kg | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 108-88-3 | | | | | | | |
| Toluene<br>108-88-3 | sewage treatment plant (STP) | | 13,61 mg/l | | | | |
| Toluene<br>108-88-3 | aqua (marine water) | | 0,68 mg/l | | | | |
| Toluene<br>108-88-3 | aqua (intermittent releases) | | 0,68 mg/l | | | | |

**Derived No-Effect Level (DNEL):**

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Long term exposure - systemic effects | | 221 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Acute/short term exposure - systemic effects | | 442 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Long term exposure - local effects | | 221 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | inhalation | Acute/short term exposure - local effects | | 442 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | Workers | dermal | Long term exposure - systemic effects | | 212 mg/kg | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Long term exposure - systemic effects | | 65,3 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Acute/short term exposure - systemic effects | | 260 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Long term exposure - local effects | | 65,3 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | inhalation | Acute/short term exposure - local effects | | 260 mg/m3 | |
| Xylene - mixture of isomeres 1330-20-7 | General population | dermal | Long term exposure - systemic effects | | 125 mg/kg | |
| Xylene - mixture of isomeres 1330-20-7 | General population | oral | Long term exposure - systemic effects | | 12,5 mg/kg | |
| 1-Methoxy-2-propyl 108-65-6 | Workers | Inhalation | Long term exposure - systemic effects | | 275 mg/m3 | |
| 1-Methoxy-2-propyl 108-65-6 | General population | Inhalation | Long term exposure - systemic effects | | 33 mg/m3 | |
| 1-Methoxy-2-propyl 108-65-6 | Workers | dermal | Long term exposure - systemic effects | | 796 mg/kg | |
| 1-Methoxy-2-propyl 108-65-6 | General population | inhalation | Long term exposure - local effects | | 33 mg/m3 | |
| 1-Methoxy-2-propyl 108-65-6 | General population | dermal | Long term exposure - systemic effects | | 320 mg/kg | |
| 1-Methoxy-2-propyl 108-65-6 | General population | oral | Long term exposure - systemic effects | | 36 mg/kg | |
| 1-Methoxy-2-propyl 108-65-6 | General population | oral | Acute/short term exposure - systemic effects | | 500 mg/kg | |
| 1-Methoxy-2-propyl 108-65-6 | Workers | Inhalation | Acute/short term exposure - local effects | | 550 mg/m3 | |
| ethylbenzene 100-41-4 | Workers | inhalation | Acute/short term exposure - local effects | | 293 mg/m3 | |
| ethylbenzene 100-41-4 | General population | inhalation | Long term exposure - systemic effects | | 15 mg/m3 | |
| ethylbenzene 100-41-4 | General population | oral | Long term exposure - systemic effects | | 1,6 mg/kg | |
| ethylbenzene 100-41-4 | Workers | dermal | Long term exposure - systemic effects | | 180 mg/kg | |
| ethylbenzene 100-41-4 | Workers | inhalation | Long term exposure - | | 77 mg/m3 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | systemic effects | | | |
| m-Tolylidene diisocyanate<br>26471-62-5 | Workers | Inhalation | Acute/short term exposure - systemic effects | | 0,14 mg/m3 | |
| m-Tolylidene diisocyanate<br>26471-62-5 | Workers | Inhalation | Acute/short term exposure - local effects | | 0,14 mg/m3 | |
| m-Tolylidene diisocyanate<br>26471-62-5 | Workers | Inhalation | Long term exposure - systemic effects | | 0,035 mg/m3 | |
| m-Tolylidene diisocyanate<br>26471-62-5 | Workers | Inhalation | Long term exposure - local effects | | 0,035 mg/m3 | |
| Toluene<br>108-88-3 | Workers | Inhalation | Acute/short term exposure - local effects | | 384 mg/m3 | |
| Toluene<br>108-88-3 | Workers | Inhalation | Acute/short term exposure - systemic effects | | 384 mg/m3 | |
| Toluene<br>108-88-3 | Workers | Inhalation | Long term exposure - local effects | | 192 mg/m3 | |
| Toluene<br>108-88-3 | Workers | Inhalation | Long term exposure - systemic effects | | 192 mg/m3 | |
| Toluene<br>108-88-3 | Workers | dermal | Long term exposure - systemic effects | | 384 mg/kg | |
| Toluene<br>108-88-3 | General population | Inhalation | Acute/short term exposure - local effects | | 226 mg/m3 | |
| Toluene<br>108-88-3 | General population | Inhalation | Acute/short term exposure - systemic effects | | 226 mg/m3 | |
| Toluene<br>108-88-3 | General population | Inhalation | Long term exposure - systemic effects | | 56,5 mg/m3 | |
| Toluene<br>108-88-3 | General population | dermal | Long term exposure - systemic effects | | 226 mg/kg | |
| Toluene<br>108-88-3 | General population | oral | Long term exposure - systemic effects | | 8,13 mg/kg | |
| Toluene<br>108-88-3 | General population | inhalation | Long term exposure - local effects | | 56,5 mg/m3 | |

**Biological Exposure Indices:**

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|---|---|---|---|---|---|---|---|
| Xylene<br>1330-20-7<br>[XYLENE O-, M-, P-, OR MIXED ISOMERS] | Methylhippuric acids | Creatinine in urine | Sampling time: End of shift. | | UKEH40BMGV | | |
| m-Tolylidene diisocyanate<br>26471-62-5<br>[ISOCYANATES (APPLIES TO HDI, IPDI, TDI AND MDI)] | Isocyanate-derived diamine | Creatinine in urine | Sampling time: At the end of the period of exposure. | | UKEH40BMGV | | |

**8.2. Exposure controls:**

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
and/or
facial protection
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
Protective clothing that covers arms and legs.
apron
protective boots
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
Wash off any dirt that gets onto the skin with lots of soap and water, skin care.
Use solvent-resistant skin protection cream.
Store working clothes separately.
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.
Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | liquid<br>clear<br>Amber |
| Odor | sweet, of aromatic<br>solvent |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 137 - 140 °C (278.6 - 284 °F) |
| Flash point | 31 °C (87.8 °F); Setaflash Closed Cup |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | |
| lower | 1 %(V) |
| upper | 10,6 %(V) |
| Vapour pressure (20 °C (68 °F)) | 4,9 - 6,8 mbar |
| Relative vapour density: | No data available / Not applicable |
| Density (20 °C (68 °F)) | 1,02 - 1,03 g/cm3 |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | Insoluble |
| Solubility (qualitative) | Soluble |

| | |
|---|---|
| (20 °C (68 °F); Solvent: organic solvent) | |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | 200,0 - 500,0 cp |
| (Brookfield; Instrument: RVF; speed of rotation: 20 min-1; Spindle No: 2) | |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

**9.2. Other information**

No data available / Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
Reaction with water, formation of CO2
Reacts with strong oxidants.
Reaction with strong bases
Reaction with strong acids.
Reacts with alcohols and amines.
Contact with moisture, other materials which can react with isocyanates, or temperatures above 204.4°C , may cause polymerization.
Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
Exposure to air or moisture over prolonged periods.
Vapours may form explosive mixture with air.
Spray mist may be flammable at temperatures below the flash point.
Heat, flames, sparks and other sources of ignition.

**10.5. Incompatible materials**
See section reactivity.

**10.6. Hazardous decomposition products**
Hydrocarbons
At higher temperature carbon oxides and nitrogen oxides may be generated.
Hydrogen cyanide.
May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.
Polymerization may occur at elevated temperature or in the presence of incompatible materials.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | LD50 | 3.523 mg/kg | rat | EU Method B.1 (Acute Toxicity (Oral)) |
| Methoxypropyl acetate 2- 108-65-6 | LD50 | 6.190 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| ethylbenzene 100-41-4 | LD50 | 3.500 mg/kg | rat | not specified |
| m-Tolylidene diisocyanate 26471-62-5 | LD50 | 4.130 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Toluene 108-88-3 | LD50 | 5.580 mg/kg | rat | EU Method B.1 (Acute Toxicity (Oral)) |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | LD50 | 1.700 mg/kg | rabbit | not specified |
| Methoxypropyl acetate 2- 108-65-6 | LD50 | > 5.000 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| ethylbenzene 100-41-4 | LD50 | 15.433 mg/kg | rabbit | not specified |
| m-Tolylidene diisocyanate 26471-62-5 | LD50 | > 9.400 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| Toluene 108-88-3 | LD50 | > 5.000 mg/kg | rabbit | not specified |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | LC50 | 11 mg/l | vapour | 4 h | rat | not specified |
| ethylbenzene 100-41-4 | LC50 | 17,2 mg/l | vapour | 4 h | rat | not specified |
| m-Tolylidene diisocyanate 26471-62-5 | LC50 | 0,24 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Toluene 108-88-3 | LC50 | 28,1 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | moderately irritating | | rabbit | not specified |
| Methoxypropyl acetate 2- 108-65-6 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| m-Tolylidene diisocyanate 26471-62-5 | irritating | 4 h | rabbit | not specified |
| Toluene 108-88-3 | irritating | 4 h | rabbit | EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | slightly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Methoxypropyl acetate 2- 108-65-6 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| m-Tolylidene diisocyanate 26471-62-5 | irritating | | rabbit | Draize Test |
| Toluene 108-88-3 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Methoxypropyl acetate 2- 108-65-6 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| m-Tolylidene diisocyanate 26471-62-5 | sensitising | Buehler test | guinea pig | EU Method B.6 (Skin Sensitisation) |
| Toluene 108-88-3 | not sensitising | Guinea pig maximisation test | guinea pig | EU Method B.6 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Xylene - mixture of isomeres 1330-20-7 | negative | in vitro mammalian chromosome aberration test | with and without | | EU Method B.10 (Mutagenicity) |
| Xylene - mixture of isomeres 1330-20-7 | negative | sister chromatid exchange assay in mammalian cells | with and without | | EU Method B.19 (Sister Chromatid Exchange Assay In Vitro) |
| Methoxypropyl acetate 2-108-65-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Methoxypropyl acetate 2-108-65-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Methoxypropyl acetate 2-108-65-6 | negative | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro | without | | OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) |
| ethylbenzene 100-41-4 | negative | sister chromatid exchange assay in mammalian cells | with and without | | not specified |
| ethylbenzene 100-41-4 | negative | in vitro mammalian chromosome aberration test | with and without | | not specified |
| ethylbenzene 100-41-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | not specified |
| m-Tolylidene diisocyanate 26471-62-5 | negative | bacterial reverse mutation assay (e.g Ames test) | without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| m-Tolylidene diisocyanate 26471-62-5 | positive | bacterial reverse mutation assay (e.g Ames test) | with | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Toluene 108-88-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| Toluene 108-88-3 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Xylene - mixture of isomeres 1330-20-7 | negative | intraperitoneal | | rat | OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| ethylbenzene 100-41-4 | negative | intraperitoneal | | mouse | Micronucleus assay |
| m-Tolylidene diisocyanate 26471-62-5 | negative | inhalation | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | not carcinogenic | oral: gavage | 103 w 5 d/w | rat | male/female | EU Method B.32 (Carcinogenicity Test) |
| m-Tolylidene diisocyanate 26471-62-5 | not carcinogenic | inhalation: vapour | 113 w 6 h/d, 5d/w | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|---|---|---|---|
| Methoxypropyl acetate 2-<br>108-65-6 | NOAEL P 1.000 mg/kg<br><br>NOAEL F1 1.000 mg/kg | screening | oral: gavage | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| m-Tolylidene diisocyanate<br>26471-62-5 | NOAEL P 0.08 ppm<br><br>NOAEL F1 0.3 ppm<br><br>NOAEL F2 0.02 ppm | Two generation study | inhalation: vapour | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres<br>1330-20-7 | NOAEL 150 mg/kg | oral: gavage | 90 d<br>daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Methoxypropyl acetate 2-<br>108-65-6 | NOAEL >= 1.000 mg/kg | oral: gavage | 41 - 45 d<br>daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| ethylbenzene<br>100-41-4 | | inhalation | 4weeks<br>6 hours/day, 5 days/week | mouse | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| m-Tolylidene diisocyanate<br>26471-62-5 | NOAEL 0.05 ppm | inhalation: vapour | 113 w<br>6 h/d, 5 d/w | rat | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Toluene<br>108-88-3 | NOAEL 625 mg/kg | oral: gavage | 13 weeks<br>daily, 5 days/ week | rat | EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---|---|---|---|---|
| ethylbenzene<br>100-41-4 | 0,641 mm2/s | 40 °C | OECD Test Guideline 114 | |
| Toluene<br>108-88-3 | 0,57 mm2/s | 40 °C | not specified | |

## SECTION 12: Ecological information

**General ecological information:**
Do not empty into drains / surface water / ground water.

### 12.1. Toxicity

**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | LC50 | 2,6 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Methoxypropyl acetate 2- 108-65-6 | LC50 | 100 - 180 mg/l | 96 h | Salmo gairdneri (new name: Oncorhynchus mykiss) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Methoxypropyl acetate 2- 108-65-6 | LC50 | 63,5 mg/l | 14 d | Oryzias latipes | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| ethylbenzene 100-41-4 | LC50 | 4,2 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| m-Tolylidene diisocyanate 26471-62-5 | LC50 | > 100 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Toluene 108-88-3 | NOEC | 3,2 mg/l | 28 d | Cyprinodon variegatus | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Toluene 108-88-3 | LC50 | 5,5 mg/l | 96 h | Oncorhynchus kisutch | OECD Guideline 203 (Fish, Acute Toxicity Test) |

**Toxicity (Daphnia):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | EC50 | 3,1 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Methoxypropyl acetate 2- 108-65-6 | EC50 | > 500 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| ethylbenzene 100-41-4 | EC50 | > 1,8 - 2,4 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| m-Tolylidene diisocyanate 26471-62-5 | EC50 | 12,5 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Toluene 108-88-3 | EC50 | 11,5 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**Chronic toxicity to aquatic invertebrates**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Methoxypropyl acetate 2- 108-65-6 | NOEC | > 100 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| ethylbenzene 100-41-4 | NOEC | 0,96 mg/l | 7 d | Ceriodaphnia dubia | OECD 211 (Daphnia magna, Reproduction Test) |
| Toluene 108-88-3 | NOEC | 0,74 mg/l | 7 d | Ceriodaphnia dubia | other guideline: |

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | ErC50 | 4,36 mg/l | 73 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Xylene - mixture of isomeres 1330-20-7 | EC10 | 1,9 mg/l | 73 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Methoxypropyl acetate 2- 108-65-6 | NOEC | > 1.000 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Methoxypropyl acetate 2- 108-65-6 | EC50 | > 1.000 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| ethylbenzene 100-41-4 | EC50 | 7,7 mg/l | 96 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| ethylbenzene 100-41-4 | NOEC | 4,5 mg/l | 96 h | Skeletonema costatum | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| m-Tolylidene diisocyanate 26471-62-5 | EC50 | 4.300 mg/l | 96 h | Chlorella vulgaris | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| m-Tolylidene diisocyanate 26471-62-5 | EC10 | 2.000 mg/l | 96 h | Chlorella vulgaris | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Toluene 108-88-3 | IC50 | 12 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity to microorganisms**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | EC 50 | > 1 - 10 mg/l | | | not specified |
| Methoxypropyl acetate 2- 108-65-6 | EC 50 | > 100 mg/l | | | not specified |
| ethylbenzene 100-41-4 | EC50 | > 152 mg/l | 30 min | not specified | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| m-Tolylidene diisocyanate 26471-62-5 | EC 50 | > 100 mg/l | 3 h | | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Toluene 108-88-3 | NOEC | 29 mg/l | 16 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |

**12.2. Persistence and degradability**

The product is not biodegradable.

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | readily biodegradable | aerobic | 90 % | 28 day | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Methoxypropyl acetate 2- 108-65-6 | inherently biodegradable | aerobic | 100 % | 8 d | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Methoxypropyl acetate 2- 108-65-6 | readily biodegradable | | 90 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| ethylbenzene 100-41-4 | readily biodegradable | aerobic | 69 % | 33 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| m-Tolylidene diisocyanate 26471-62-5 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II)) |
| Toluene 108-88-3 | readily biodegradable | aerobic | 80 % | 20 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

**12.3. Bioaccumulative potential**

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---|---|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | 25,9 | 56 day | | Oncorhynchus mykiss | not specified |
| ethylbenzene 100-41-4 | 1 | 42 d | 10 °C | Oncorhynchus kisutch | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| m-Tolylidene diisocyanate 26471-62-5 | 180 | 60 d | | Cyprinus carpio | OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test) |
| Toluene 108-88-3 | 90 | 3 d | | Leuciscus idus melanotus | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

### 12.4. Mobility in soil

Cured adhesives are immobile.

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---|---|---|---|
| Xylene - mixture of isomeres 1330-20-7 | 3,16 | 20 °C | |
| Methoxypropyl acetate 2- 108-65-6 | 0,56 | | not specified |
| ethylbenzene 100-41-4 | 3,6 | 20 °C | EU Method A.8 (Partition Coefficient) |
| m-Tolylidene diisocyanate 26471-62-5 | 3,43 | 22 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Toluene 108-88-3 | 2,73 | 20 °C | EU Method A.8 (Partition Coefficient) |

### 12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|---|---|
| Xylene - mixture of isomeres 1330-20-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Methoxypropyl acetate 2- 108-65-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| ethylbenzene 100-41-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| m-Tolylidene diisocyanate 26471-62-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Toluene 108-88-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

### 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product disposal:
Dispose of in accordance with local and national regulations.
Collection and delivery to recycling enterprise or other registered elimination institution.

Disposal of uncleaned packages:
Disposal must be made according to official regulations.
Use packages for recycling only when totally empty.
Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## SECTION 14: Transport information

**14.1. UN number**

| | |
|---|---|
| ADR | 1866 |
| RID | 1866 |
| ADN | 1866 |
| IMDG | 1866 |
| IATA | 1866 |

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR | RESIN SOLUTION |
| RID | RESIN SOLUTION |
| ADN | RESIN SOLUTION |
| IMDG | RESIN SOLUTION |
| IATA | Resin solution |

**14.3. Transport hazard class(es)**

| | |
|---|---|
| ADR | 3 |
| RID | 3 |
| ADN | 3 |
| IMDG | 3 |
| IATA | 3 |

**14.4. Packing group**

| | |
|---|---|
| ADR | III |
| RID | III |
| ADN | III |
| IMDG | III |
| IATA | III |

**14.5. Environmental hazards**

| | |
|---|---|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

| | |
|---|---|
| ADR | not applicable<br>Tunnelcode: (D/E) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

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

not applicable

## SECTION 15: Regulatory information

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

VOC content (2010/75/EC) 56,3 %

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

**Further information:**

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel´s Product Safety and Regulatory Affairs Department (ua-productsafety.de@henkel.com) prior to export to other territories than the European Union.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Dear Customer,
Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).

**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**