1.1. Product identifier

Ceramic-Polymer NK C5-3 Part B

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

Use of the substance/mixture

Colour

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Ceramic Polymer GmbH
Daimlerring 9
DE-32289 Rödinghausen

Telephone: +49(0) 52 23 / 9 62 76-0
Telefax: +49(0) 52 23 / 9 62 76-17

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Flammable liquid and vapour.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

- xylene
- Hexamethylene-1,6-diisocyanat Homopolymer
- 2-dimethylaminoethanol; N,N-dimethylethanolamine
- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate
dibutyltin dilaurate; dibuty[bis(dodecanoyloxy)]stannane

Signal word: Danger

Pictograms:
Hazard statements

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof lighting equipment.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
</tr>
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<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
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<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>25-&lt;50 %</td>
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</tr>
<tr>
<td>215-535-7</td>
<td>601-022-00-9</td>
<td>01-2119488216-32</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28182-81-2</td>
<td>Hexamethylen-1,6-diisocyanat Homopolymer</td>
<td>15-&lt;20 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>500-060-2</td>
<td>01-2119485796-17</td>
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<td>Acute Tox. 4, Skin Sens. 1, STOT SE 3; H332 H317 H335</td>
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<td></td>
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<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>7-&lt;10 %</td>
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<td></td>
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<td></td>
<td>203-603-9</td>
<td>01-2119475791-29</td>
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<td></td>
<td>Flam. Liq. 3; H226</td>
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<td></td>
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<tr>
<td>108-01-0</td>
<td>2-dimethylaminoethanol; N,N-dimethylethanolamine</td>
<td>3-&lt;5 %</td>
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<td>203-542-8</td>
<td>01-2119492298-24</td>
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<td></td>
<td>Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H226 H332 H312 H302</td>
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<td></td>
<td>H314</td>
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<tr>
<td>4098-71-9</td>
<td>3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate</td>
<td>0,15-0,25 %</td>
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<td></td>
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<td></td>
<td>223-861-6</td>
<td>01-2119490408-31</td>
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<td></td>
<td>Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H331 H315 H319 H334 H317 H335 H411</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>77-55-7</td>
<td>dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane</td>
<td>0,1-0,15 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>201-039-8</td>
<td>01-2119496068-27</td>
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<td></td>
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<tr>
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<td>Muta. 2, Repr. 1B, STOT RE 1; H341 H360FD H372</td>
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<td></td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.
SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation
Remove casualty to fresh air and keep warm and at rest. If unconscious place in recovery position and seek medical advice immediately.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately. Do not wash with: Solvents/Thinner

After contact with eyes
After contact with eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

4.3. Indication of any immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Dry extinguishing powder. Carbon dioxide (CO2). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx)

5.3. Advice for firefighters
Special protective equipment for firefighters Protective clothing. In case of fire: Wear self-contained breathing apparatus.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See protective measures under point 7 and 8. Provide adequate ventilation. Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the
recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
See protective measures under point 7 and 8.
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
See section 8. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

Advice on protection against fire and explosion
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Hints on joint storage
Keep away from:
Food and feedingstuffs
Oxidising agent

Further information on storage conditions
Keep away from:
Frost
Heat
Humidity

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6</td>
<td>1-Methoxypropyl acetate</td>
<td>50</td>
<td>274</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>548</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>108-01-0</td>
<td>2-Dimethylaminoethanol</td>
<td>2</td>
<td>7.4</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6</td>
<td>22</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Xylene: mixed isomers</td>
<td>50</td>
<td>220</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>441</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

Biological Monitoring Guidance Values (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Parameter</th>
<th>Value</th>
<th>Test material</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Xylene, α-, m-, p- or mixed isomers</td>
<td>methyl hippuric acid (creatinine)</td>
<td>650 mmol/mol</td>
<td>urine</td>
<td>Post shift</td>
</tr>
</tbody>
</table>
## DNEL/DMEL values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>Worker</td>
<td>inhalation</td>
<td>systemic</td>
<td>77 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>systemic</td>
<td>289 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>289 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>dermal</td>
<td>systemic</td>
<td>180 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>systemic</td>
<td>14.8 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>174 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>dermal</td>
<td>systemic</td>
<td>108 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>oral</td>
<td>systemic</td>
<td>1.6 mg/kg bw/day</td>
</tr>
<tr>
<td>28182-81-2</td>
<td>Hexamethylen-1,6-diisocyanat Homopolymer</td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>0.5 mg/m³</td>
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<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>systemic</td>
<td>275 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>550 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>dermal</td>
<td>systemic</td>
<td>796 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer</td>
<td>inhalation</td>
<td>systemic</td>
<td>33 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer</td>
<td>inhalation</td>
<td>local</td>
<td>33 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer</td>
<td>dermal</td>
<td>systemic</td>
<td>320 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer</td>
<td>oral</td>
<td>systemic</td>
<td>36 mg/kg bw/day</td>
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<td>108-01-0</td>
<td>2-dimethylaminoethanol; N,N-dimethylethanolamine</td>
<td>Worker</td>
<td>inhalation</td>
<td>systemic</td>
<td>7.4 mg/m³</td>
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<td>Worker</td>
<td>inhalation</td>
<td>systemic</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>7.4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>dermal</td>
<td>systemic</td>
<td>1.04 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker</td>
<td>dermal</td>
<td>systemic</td>
<td>5 mg/kg bw/day</td>
</tr>
<tr>
<td>4098-71-9</td>
<td>3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate</td>
<td>Worker</td>
<td>inhalation</td>
<td>local</td>
<td>0.045 mg/m³</td>
</tr>
<tr>
<td>77-58-7</td>
<td>dibutyltin dilaurate; dibutyl[bis(dodecanoxyloxy)]stannane</td>
<td>Worker</td>
<td>inhalation</td>
<td>systemic</td>
<td>0.02 mg/m³</td>
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<td></td>
<td></td>
<td>Worker</td>
<td>dermal</td>
<td>systemic</td>
<td>0.43 mg/kg bw/day</td>
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<td></td>
<td>Worker</td>
<td>dermal</td>
<td>systemic</td>
<td>2.08 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer</td>
<td>inhalation</td>
<td>systemic</td>
<td>0.005 mg/m³</td>
</tr>
</tbody>
</table>
### Consumer DNEL, acute

**Inhalation**
- Systemic: 0.04 mg/m³

**Dermal**
- Systemic: 0.16 mg/kg bw/day

**Oral**
- Systemic: 0.02 mg/kg bw/day

### Consumer DNEL, long-term

**Dermal**
- Systemic: 0.5 mg/kg bw/day

**Oral**
- Systemic: 0.003 mg/kg bw/day
### PNEC values

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Environmental compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>Freshwater</td>
<td>0.327 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.327 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>12.46 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine sediment</td>
<td>12.46 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>6.58 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>2.31 mg/kg</td>
</tr>
<tr>
<td>28182-81-2</td>
<td>Hexamethylen-1,6-diisocyanat Homopolymer</td>
<td>Freshwater</td>
<td>0.127 mg/l</td>
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<td></td>
<td></td>
<td>Marine water</td>
<td>0.0127 mg/l</td>
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<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>266700 mg/kg</td>
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<td></td>
<td>Marine sediment</td>
<td>26670 mg/kg</td>
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<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>38.3 mg/l</td>
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<td></td>
<td>Soil</td>
<td>53182 mg/kg</td>
</tr>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>Freshwater</td>
<td>0.635 mg/l</td>
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<td>Marine water</td>
<td>0.064 mg/l</td>
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<td>Freshwater sediment</td>
<td>3.29 mg/kg</td>
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<td></td>
<td>Marine sediment</td>
<td>0.329 mg/kg</td>
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<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>100 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>0.29 mg/kg</td>
</tr>
<tr>
<td>108-01-0</td>
<td>2-dimethylaminoethanol; N,N-dimethylethanolamine</td>
<td>Freshwater</td>
<td>0.066 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0.066 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater (intermittent releases)</td>
<td>0.007 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>0.053 mg/kg</td>
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<td></td>
<td>Marine sediment</td>
<td>0.018 mg/kg</td>
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<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>10 mg/l</td>
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<td></td>
<td>Soil</td>
<td>0.018 mg/kg</td>
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<td>4098-71-9</td>
<td>3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate</td>
<td>Freshwater</td>
<td>0.027 mg/l</td>
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<td>Freshwater (intermittent releases)</td>
<td>0.27 mg/l</td>
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<td></td>
<td>Marine water</td>
<td>0 mg/l</td>
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<tr>
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<td>Freshwater sediment</td>
<td>98.51 mg/kg</td>
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<td>Marine sediment</td>
<td>1.46 mg/kg</td>
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<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>10.6 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>19.8 mg/kg</td>
</tr>
<tr>
<td>77-58-7</td>
<td>dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane</td>
<td>Freshwater</td>
<td>0 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater (intermittent releases)</td>
<td>0.005 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0 mg/l</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Appropriate engineering controls
Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures
Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary.
When using do not eat, drink, smoke, sniff.

Eye/face protection
goggles

Hand protection
Tested protective gloves must be worn: DIN EN 374
Breakthrough times and swelling properties of the material must be taken into consideration.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Observe the wear time limits as specified by the manufacturer.
Wear cotton undermitten if possible.

Skin protection
Protective clothing

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Combination filtering device (EN 14387) ABEK-P2
Self-contained respirator (breathing apparatus) (DIN EN 133)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>various</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

pH-Value: not determined

Changes in the physical state

<table>
<thead>
<tr>
<th>Melting point:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>36 °C</td>
</tr>
<tr>
<td>Sublimation point:</td>
<td>not determined</td>
</tr>
<tr>
<td>Softening point:</td>
<td>not determined</td>
</tr>
<tr>
<td>Pour point:</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point:</td>
<td>30 °C</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Solid:</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas:</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Explosive properties
not explosive according to EU A.14
Vapours can form explosive mixtures with air.
### Lower explosion limits:
1,1
### Upper explosion limits:
7
### Ignition temperature:
315 °C

#### Auto-ignition temperature
- **Solid:** not determined
- **Gas:** not determined

#### Decomposition temperature:
not determined

### Oxidizing properties
Not oxidising.

- **Vapour pressure:** 6.7-8.2 hPa
- **Density (at 20 °C):** 1,038 g/cm³
- **Water solubility:** Immiscible

### Solubility in other solvents
No information available.

- **Partition coefficient:** not determined
- **Viscosity / dynamic:** not determined
- **Vapour density:** not determined
- **Evaporation rate:** not determined
- **Solvent content:** 36.0

### Other information
- **Solid content:** 64.0

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
The product is stable under storage at normal ambient temperatures.

#### 10.2. Chemical stability
The substance is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions
No information available.

#### 10.4. Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### 10.5. Incompatible materials
No information available.

#### 10.6. Hazardous decomposition products
No information available.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects
- **Acute toxicity**
  Harmful if inhaled.

- **ATEmix calculated**
  ATE (inhalation vapour) 14.55 mg/l; ATE (inhalation aerosol) 1,988 mg/l
## Chemical name

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>dermal</td>
<td>ATE</td>
<td>1100 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>ATE</td>
<td>11 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
</tr>
<tr>
<td>28182-81-2</td>
<td>Hexamethylene-1,6-diisocyanat Homopolymer</td>
<td>inhalation vapour</td>
<td>ATE</td>
<td>11 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
</tr>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>oral</td>
<td>LD50</td>
<td>&gt;5000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h)</td>
<td>LC50</td>
<td>&gt;23,878 mg/l</td>
<td></td>
</tr>
<tr>
<td>108-01-0</td>
<td>2-dimethylaminoethanol; N,N-dimethylethanolamine</td>
<td>oral</td>
<td>LD50</td>
<td>1182,7 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>1219 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>ATE</td>
<td>11 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
</tr>
<tr>
<td>4098-71-9</td>
<td>3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate</td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 7000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation vapour</td>
<td>ATE</td>
<td>3 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>0,5 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

### Irritation and corrosivity
- Causes skin irritation.
- Causes serious eye damage.

### Sensitising effects
- May cause an allergic skin reaction. (Hexamethylene-1,6-diisocyanat Homopolymer; 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate)

### Carcinogenic/mutagenic/toxic effects for reproduction
- Based on available data, the classification criteria are not met.

### Ecological information
#### 12.1. Toxicity
### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td>0,43</td>
</tr>
<tr>
<td>108-01-0</td>
<td>2-dimethylaminoethanol; N,N-dimethylethanolamine</td>
<td>-0,55</td>
</tr>
<tr>
<td>4098-71-9</td>
<td>3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate</td>
<td>0,99</td>
</tr>
</tbody>
</table>

#### BCF

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>BCF</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-01-0</td>
<td>2-dimethylaminoethanol; N,N-dimethylethanolamine</td>
<td>3,162</td>
<td>Fish, species not reported</td>
<td>Study report (2010)</td>
</tr>
<tr>
<td>4098-71-9</td>
<td>3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate</td>
<td>3,16</td>
<td>QSAR estimate</td>
<td>Other company data (</td>
</tr>
<tr>
<td>77-58-7</td>
<td>dibutyltin dilaurate; dibutyl[bis(dodecanoxyloxy)]stannane</td>
<td>1,49</td>
<td>Carassius carassius</td>
<td>Toxicol. Environ. Ch</td>
</tr>
</tbody>
</table>
12.4. Mobility in soil
   No information available.

12.5. Results of PBT and vPvB assessment
   The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
   No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
   Advice on disposal
   Dispose of waste according to applicable legislation.

   Contaminated packaging
   Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:          UN 1263
14.2. UN proper shipping name:  Paint
14.3. Transport hazard class(es):  3
14.4. Packing group:        III
   Hazard label:            3
   Classification code:     F1
   Special Provisions:      163 367 650
   Limited quantity:        5 L
   Excepted quantity:       E1
   Transport category:      3
   Hazard No:              30
   Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number:          UN 1263
14.2. UN proper shipping name:  Paint
14.3. Transport hazard class(es):  3
14.4. Packing group:        III
   Hazard label:            3
   Classification code:     F1
   Special Provisions:      163 367 650
   Limited quantity:        5 L
   Excepted quantity:       E1

Marine transport (IMDG)

14.1. UN number:          UN 1263
14.2. UN proper shipping name:  Paint
14.3. Transport hazard class(es):  3
14.4. Packing group:        III
   Hazard label:            3
   Special Provisions:      163, 223, 367, 955
   Limited quantity:        5 L
   Excepted quantity:       E1
   EmS:                     F-E, S-E
Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1263
14.2. UN proper shipping name: Paint
14.3. Transport hazard class(es): 3
14.4. Packing group: III

Hazard label: 3
Special Provisions: A3 A72 A192
Limited quantity Passenger: 10 L
Passenger LQ: Y344
Excepted quantity: E1
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No information available.

SECTION 15: Regulatory information

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

EU regulatory information
2010/75/EU (VOC): 36,0
2004/42/EC (VOC): 36,0

National regulatory information
Employment restrictions: Observe restrictions to employment for juvenils according to the ‘juvenile work protection guideline’ (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
- xylene
- Hexamethylene-1,6-diisocyanat Homopolymer
- 2-methoxy-1-methylethyl acetate
- 2-dimethylaminoethanol; N,N-dimethylethanolamine
- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate
dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)]stannane

SECTION 16: Other information

Abbreviations and acronyms
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H360FD May damage fertility. May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Further Information
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)