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

1.1. Product identifier
937 Injektor Intensiv-Reiniger Benzin MF93700500AB

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
No information available.

1.3. Details of the supplier of the safety data sheet
Company name: TUNAP Deutschland Vertriebs GmbH & Co. Betriebs KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen
Telephone: +49 (0) 8171/1600 - 0
Telex: +49 (0) 8171/1600 - 40
E-mail: sdb@tunap.com
Internet: www.tunap.com

1.4. Emergency telephone number:
+49 (0) 30 30 686 790 (Giftnotruf Berlin)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008
Hazard categories:
Aerosol: Aerosol 1
Acute toxicity: Acute Tox. 4
Aspiration hazard: Asp. Tox. 1
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 2
Harmful to the aquatic environment: Aquatic Chronic 3

Hazard Statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.
Harmful if inhaled.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard components for labelling
xylene
n-propanol
morpholine

Signal word: Danger
937 Injektor Intensiv-Reiniger Benzin MF93700500AB

Pictograms:

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P260 Do not breathe Aerosol.
P280 Wear eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P251 Do not pierce or burn, even after use.

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>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>215-535-7</td>
<td>01-2119455851-35</td>
<td>25 - &lt; 50 %</td>
<td></td>
</tr>
<tr>
<td>71-23-8</td>
<td>n-propanol</td>
<td>200-746-9</td>
<td>01-2119467621-29</td>
<td>10 - &lt; 20 %</td>
<td></td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha, aromatic, light</td>
<td>918-66-8</td>
<td>01-2119455851-35</td>
<td>10 - &lt; 20 %</td>
<td></td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>202-849-4</td>
<td>01-2119460573-01</td>
<td>10 - &lt; 20 %</td>
<td></td>
</tr>
<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>203-815-1</td>
<td>01-2119496057-30</td>
<td>3 - &lt; 5 %</td>
<td></td>
</tr>
<tr>
<td>1398506-12-1</td>
<td>Oxirane, 2-ethyl-, homopolymer, 3-aminopropyl C11-14-isoalkyl ethers, C13-rich</td>
<td>805-631-2</td>
<td>1 - &lt; 3 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>203-625-9</td>
<td>01-2119460573-01</td>
<td>0.1 - &lt; 1 %</td>
<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**

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

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

No information available.

4.3. **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

**SECTION 5: Firefighting measures**

5.1. Extinguishing media

**Suitable extinguishing media**
- Carbon dioxide (CO2), Foam, Extinguishing powder.

**Unsuitable extinguishing media**
- High power water jet

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**Additional information**

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

- Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

- Do not allow uncontrolled discharge of product into the environment. Danger of explosion

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

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

**Advice on safe handling**
- Do not pierce or burn, even after use. Do not breathe gas/fumes/vapour/spray.

**Advice on protection against fire and explosion**
- Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Vapours can form explosive mixtures with air.

**Further information on handling**
- Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**
- Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on storage compatibility**
- Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.
Further information on storage conditions

Protect from frost. Protect against direct sunlight.

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>100-41-4</td>
<td>Ethylbenzene</td>
<td>100</td>
<td>441</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>125</td>
<td>552</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>110-91-8</td>
<td>Morpholine</td>
<td>10</td>
<td>36</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
<td>72</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>71-23-8</td>
<td>Propan-1-ol</td>
<td>200</td>
<td>500</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250</td>
<td>625</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>50</td>
<td>191</td>
<td></td>
<td>TWA (8 h)</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, o-, m-, p- or mixed isomers</td>
<td>methyl hippuric acid</td>
<td>650 mmol/mol</td>
<td>urine</td>
<td>Post shift</td>
</tr>
</tbody>
</table>

Additional advice on limit values

a no restriction
b End of exposure or shift
c in long-term exposure: after several shifts
d prior to next shift

TWA (EC): time-weighted average

U: Urea

B: Blood

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four
control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min
Thickness of the glove material 0,45 mm
DIN EN 374

Skin protection
Wear suitable protective clothing.

Respiratory protection
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Suitable respiratory protection apparatus: Combination filtering device (EN 14387)
Filtering device with filter or ventilator filtering device of type: A
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls
Observe legal regulations and provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Aerosol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odour:</td>
<td>solvent like</td>
</tr>
</tbody>
</table>

Test method

pH-Value (at 20 °C): not determined DIN 19268

Changes in the physical state
Melting point: not determined
Initial boiling point and boiling range: 120 °C
Sublimation point: No information available.
Softening point: No information available.
Flash point: 15 °C

Flammability
Solid: not applicable
Gas: not applicable

Lower explosion limits: 0,2 vol. %
Upper explosion limits: 13,5 vol. %
Ignition temperature: No information available.

Auto-ignition temperature
Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties
Not oxidising.

Vapour pressure: not determined
Vapour pressure: No information available.
Density (at 20 °C): 0,87 g/cm³ DIN 51757
Bulk density: not applicable
937 Injektor Intensiv-Reiniger Benzin MF93700500AB

**Solubility in other solvents**
not determined

**Partition coefficient:**
not determined

**Viscosity / dynamic:**
No information available.

**Viscosity / kinematic:**
< 7 mm²/s

**Flow time:**
No information available.

**Vapour density:**
not determined

**Evaporation rate:**
not determined

**Solvent separation test:**
No information available.

**Solvent content:**
No information available.

### 9.2. Other information

**Solid content:**
not determined

**Relative density**
Data apply to the technically active substance.

**Pressure - bar (20°C)**

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**
Flammable, Ignition hazard.

**10.2. Chemical stability**
The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**
No known hazardous reactions.

**10.4. Conditions to avoid**
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

**10.5. Incompatible materials**
No information available.

**10.6. Hazardous decomposition products**
No known hazardous decomposition products.

**Further information**
Do not mix with other chemicals.

---

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicokinetics, metabolism and distribution**
No information available.

**Acute toxicity**
Harmful if inhaled.

**ATEmix calculated**
ATE (inhalative vapour) 18.47 mg/l; ATE (inhalative aerosol) 2.097 mg/l
<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>oral</td>
<td>LD50</td>
<td>4300 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>1700 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>21,7 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
</tr>
<tr>
<td>71-23-8</td>
<td>n-propanol</td>
<td>oral</td>
<td>LD50</td>
<td>8000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>4032 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>&gt; 33,8 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha (petroleum), aromatic, light</td>
<td>oral</td>
<td>LD50</td>
<td>3592 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 3160 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>oral</td>
<td>LD50</td>
<td>3500 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>15400 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>17,2 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
</tr>
<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>oral</td>
<td>LD50</td>
<td>1900 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>500 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>8 mg/l</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>0,5 mg/l</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>inhalative (4 h) gas</td>
<td>LC50</td>
<td>8000 ppm</td>
<td>Rat</td>
</tr>
<tr>
<td>1398506-12-1</td>
<td>Oxirane, 2-ethyl-, homopolymer, 3-amino propyl C11-14-isoalkyl ethers, C13-rich</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>dermal</td>
<td>LD50</td>
<td>12200 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h) vapour</td>
<td>LC50</td>
<td>49 mg/l</td>
<td>Rat</td>
</tr>
</tbody>
</table>

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

**Sensitising effects**
- Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**
- Based on available data, the classification criteria are not met.
- No indication of human carcinogenicity.
- No indications of human germ cell mutagenicity exist.
- No indications of human reproductive toxicity exist.
**STOT-single exposure**
May cause respiratory irritation. (xylene)
May cause drowsiness or dizziness.

**STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure. (xylene; ethylbenzene)

**Aspiration hazard**
Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**
No information available.

**Additional information on tests**
The mixture is classified as hazardous according to Directive 1999/45/EC.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>4.2 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt; 100 mg/l</td>
<td></td>
<td>Selenastrum capricornutum</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>1.8 - 2.9 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>71-23-8</td>
<td>n-propanol</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>4480 mg/l</td>
<td>96 h</td>
<td>Pimephales promelas</td>
<td></td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha (petroleum), aromatic, light</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>9.2 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>2.6-2.9 mg/l</td>
<td>96 h</td>
<td>Pseudokirchineriella subcapitata</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>3.2 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>3.6 mg/l</td>
<td>96 h</td>
<td>GESTIS</td>
<td></td>
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<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>179 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
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<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>58 mg/l</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
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<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>45 mg/l</td>
<td>48 h</td>
<td>Daphnia magna (Big water flea)</td>
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<tr>
<td></td>
<td></td>
<td>Algae toxicity</td>
<td>NOEC</td>
<td>10 mg/l</td>
<td>4 d</td>
<td>Desmodesmus subspicatus</td>
<td></td>
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<tr>
<td>1398506-12-1</td>
<td>Oxirane, 2-ethyl-, homopolymer, 3-aminopropyl C11-14-isoalkyl ethers, C13-rich</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>&gt;1 - 10 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>&gt;1 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>13 mg/l</td>
<td>96 h</td>
<td>Carassius auratus</td>
<td>IUCLID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>12.5 mg/l</td>
<td>72 h</td>
<td>GESTIS</td>
<td></td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability
12.3. Bioaccumulative potential

The product has not been tested.

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>71-23-8</td>
<td>n-propanol</td>
<td>0.29</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>3.15</td>
</tr>
<tr>
<td>110-91-8</td>
<td>morpholine</td>
<td>-2.55</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>2.73</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>110-91-8</td>
<td>morpholine</td>
<td>&lt; 2,8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Waste disposal number of used product

160504  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110  WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the
## SECTION 14: Transport information

### Land transport (ADR/RID)

<table>
<thead>
<tr>
<th>14.1. UN number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>2</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>-</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>2.1</td>
</tr>
<tr>
<td>Classification code:</td>
<td>5F</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>190 327 344 625</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>1 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E0</td>
</tr>
<tr>
<td>Transport category:</td>
<td>2</td>
</tr>
<tr>
<td>Tunnel restriction code:</td>
<td>D</td>
</tr>
</tbody>
</table>

### Inland waterways transport (ADN)

<table>
<thead>
<tr>
<th>14.1. UN number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>2</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>-</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>2.1</td>
</tr>
<tr>
<td>Classification code:</td>
<td>5F</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>190 327 344 625</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>1 L</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E0</td>
</tr>
</tbody>
</table>

### Marine transport (IMDG)

<table>
<thead>
<tr>
<th>14.1. UN number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>2</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>-</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>2, see SP63</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>63, 190, 277, 327, 344, 959</td>
</tr>
<tr>
<td>Limited quantity:</td>
<td>See SP277</td>
</tr>
<tr>
<td>Excepted quantity:</td>
<td>E0</td>
</tr>
<tr>
<td>EmS:</td>
<td>F-D, S-U</td>
</tr>
</tbody>
</table>

### Air transport (ICAO-TI/IATA-DGR)

<table>
<thead>
<tr>
<th>14.1. UN number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>AEROSOLS, flammable</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>2.1</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>-</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>2.1</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>A145 A167 A802</td>
</tr>
<tr>
<td>Limited quantity Passenger:</td>
<td>30 kg G</td>
</tr>
<tr>
<td>Passenger LQ:</td>
<td>Y203</td>
</tr>
<tr>
<td>Expected quantity:</td>
<td>E0</td>
</tr>
<tr>
<td>IATA-packing instructions - Passenger:</td>
<td>203</td>
</tr>
<tr>
<td>IATA-max. quantity - Passenger:</td>
<td>75 kg</td>
</tr>
</tbody>
</table>
14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Flammable gases.

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Solvent naphtha (petroleum), aromatic, light
Entry 48: toluene

2010/75/EU (VOC): No information available.
2004/42/EC (VOC): No information available.

Additional information


National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles 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.

Water contaminating class (D): 2 - clearly water contaminating
Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

Additional information

94/69/EC (21st ATP). The benzene content of the product is less than 0.1%. It applies the annotation P. Classification and labeling as carcinogenic is not necessary.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,11.

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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H229</td>
<td>Pressurised container: May burst if heated.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H361d</td>
<td>Suspected of damaging the unborn child.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>EUH066</td>
<td>Repeated exposure may cause skin dryness or cracking.</td>
</tr>
</tbody>
</table>

**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.)*