989 Direct Injector Cleaner MF98900300A

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

1.1. Product identifier
989 Direct Injector Cleaner MF98900300A

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

1.3. Details of the supplier of the safety data sheet
Company name: TUNAP GmbH & Co. KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen
Telephone: +49 (0) 8171/1600 - 0
Telefax: +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:
- Flammable liquid: Flam. Liq. 3
- Acute toxicity: Acute Tox. 4
- Specific target organ toxicity - single exposure: STOT SE 3
- Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:
- Flammable liquid and vapour.
- Harmful if swallowed.
- Harmful if inhaled.
- Toxic to aquatic life with long lasting effects.

2.2. Label elements
Regulation (EC) No. 1272/2008

Hazard components for labelling
- Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates
- 2-Ethylhexyl nitrate
- 2-Ethylhexan-1-ol
- Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates

Signal word: Danger

Pictograms:

Hazard statements
- H226 Flammable liquid and vapour.
- H302+H332 Harmful if swallowed or if inhaled.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P280 Wear Eye protection.
P273 Avoid release to the environment.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container according to the official regulations.

Special labelling of certain mixtures
EUH066 Repeated exposure may cause skin dryness or cracking.

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>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>27247-96-7</td>
<td>2-Ethylhexyl nitrate</td>
<td>25 - &lt; 50 %</td>
<td>248-363-6</td>
<td>01-2119539586-27</td>
<td>Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H332 H312 H302 H411 EUH044 EUH066</td>
<td></td>
</tr>
<tr>
<td>104-76-7</td>
<td>2-Ethylhexan-1-ol</td>
<td>5 - &lt; 10 %</td>
<td>203-234-3</td>
<td>01-2119487289-20</td>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H315 H319 H335</td>
<td></td>
</tr>
<tr>
<td>64742-94-5</td>
<td>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td>1 - &lt; 3 %</td>
<td>918-811-1</td>
<td>01-2119463583-34</td>
<td>STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H336 H304 H411 EUH066</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

General information
First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an
4.2. Most important symptoms and effects, both acute and delayed
Headache, nausea, dizziness, fatigue, skin irritation

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

5.2. Special hazards arising from the substance or mixture
Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

Additional information
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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
- Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Wear personal protection equipment.

6.2. Environmental precautions
- Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

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). Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections
- Safe handling: see section 7
- Personal protection equipment: see section 8
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Observe instructions for use. Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking.

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. Observe legal regulations and provisions.

Hints on joint storage
Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

Further information on storage conditions
Store in a cool dry place. Observe legal regulations and provisions.

7.3. Specific end use(s)
In use, may form flammable/explosive vapour-air mixture.

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>104-76-7</td>
<td>2-ethylhexan-1-ol</td>
<td>1</td>
<td>5.4</td>
<td></td>
<td>TWA (8 h)</td>
<td>EU</td>
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**DNEL/DMEL values**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-48-9</td>
<td>Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, &lt; 2 % aromates</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-48-9</td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td></td>
<td>1500 mg/m³</td>
</tr>
<tr>
<td>64742-48-9</td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td></td>
<td>300 mg/kg bw/day</td>
</tr>
<tr>
<td>64742-48-9</td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
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<td>900 mg/m³</td>
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<td>64742-48-9</td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td></td>
<td>300 mg/kg bw/day</td>
</tr>
<tr>
<td>64742-48-9</td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td></td>
<td>300 mg/kg bw/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>27247-96-7</td>
<td>2-Ethylhexyl nitrate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>DNEL type</th>
<th>Exposure route</th>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>27247-96-7</td>
<td>Worker DNEL, long-term</td>
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<td>0,35 mg/m³</td>
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<td>27247-96-7</td>
<td>Worker DNEL, long-term</td>
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<td>systemic</td>
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<td>1 mg/kg bw/day</td>
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<tr>
<td>27247-96-7</td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td></td>
<td>0,52 mg/kg bw/day</td>
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<tr>
<td>27247-96-7</td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td></td>
<td>0,025 mg/kg bw/day</td>
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</table>

**PNEC values**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Environmental compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>27247-96-7</td>
<td>2-Ethylhexyl nitrate</td>
<td>Freshwater</td>
<td>0,0008 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine water</td>
<td>0,00008 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freshwater sediment</td>
<td>0,00074 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine sediment</td>
<td>0,00074 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Micro-organisms in sewage treatment plants (STP)</td>
<td>10 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil</td>
<td>0,000191 mg/kg</td>
</tr>
</tbody>
</table>

**Additional advice on limit values**

- a no restriction
- b End of exposure or end of shift
- c at long term exposure: after several previous shifts
- d before next shift

- blood (B)
- Urine (U)

**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**

- Remove contaminated, saturated clothing immediately. 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**

Wear eye protection/face protection.

**Hand protection**

Protect skin by using skin protective cream. 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.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..

Filtering device with filter or ventilator filtering device of type: A

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

**Environmental exposure controls**

No information available.

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Colour:</td>
<td>brown</td>
<td></td>
</tr>
<tr>
<td>Odour:</td>
<td>solvent like</td>
<td></td>
</tr>
</tbody>
</table>

**pH-Value (at 20 °C):**

Not determined

**Changes in the physical state**

Melting point: not determined

Initial boiling point and boiling range: > 165 °C

Flash point: 47 °C ISO 3679

**Flammability**

<table>
<thead>
<tr>
<th>State</th>
<th>Flash point: 47 °C ISO 3679</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not applicable</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**Lower explosion limits:** 0,6 vol. %

**Upper explosion limits:** 7 vol. %

**Auto-ignition temperature**

<table>
<thead>
<tr>
<th>State</th>
<th>Flash point: 47 °C ISO 3679</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not applicable</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**Decomposition temperature:** not determined

**Oxidizing properties**

Not oxidising.

**Vapour pressure:** not determined

**Density (at 20 °C):** 0,8444 g/cm³ DIN 51757

**Water solubility:** The study does not need to be conducted because the substance is known to be insoluble in water.

**Solubility in other solvents**

not determined
**SECTION 10: Stability and reactivity**

**10.1. Reactivity**
Flammable.

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

**10.3. Possibility of hazardous reactions**
Concentrated vapours are heavier than air. Vapours may form explosive mixtures with air.

**10.4. Conditions to avoid**
Danger of explosion. 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**
Oxidizing agents. Pyrophoric or self-heating substances.

**10.6. Hazardous decomposition products**
Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

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

---

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicocinetics, metabolism and distribution**
There are no data available on the mixture itself.

**Acute toxicity**
Harmful if swallowed or if inhaled.

**ATEmix calculated**
ATE (oral) 1923,1 mg/kg; ATE (inhalation aerosol) 4,644 mg/l
### Chemicals and Toxicities

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>64742-48-9</td>
<td>Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, &lt; 2 % aromates</td>
<td>oral</td>
<td>LD50 &gt; 5000 mg/kg</td>
<td>Rat</td>
<td>Study report (1988)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rat</td>
<td>Study report (1989)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) vapour</td>
<td>LC50 2000 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>27247-96-7</td>
<td>2-Ethylhexyl nitrate</td>
<td>oral</td>
<td>LD50 &gt; 9640 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 4820 mg/kg</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) vapour</td>
<td>LC50 11 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE 1,5 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>104-76-7</td>
<td>2-Ethylhexan-1-ol</td>
<td>oral</td>
<td>LD50 2047 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &lt; 3000 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) vapour</td>
<td>LC50 11 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE 1,5 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>64742-94-5</td>
<td>Hydrocarbons, C10, aromatics, &lt;1% naphthalene</td>
<td>oral</td>
<td>LD50 &gt; 5000 mg/kg</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 2000 mg/kg</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation (4 h) aerosol</td>
<td>LC50 &gt; 5 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

#### Irritation and corrosivity
Based on available data, the classification criteria are not met.

#### 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 indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

#### STOT-single exposure
May cause drowsiness or dizziness. (Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates)

#### STOT-repeated exposure
Repeated exposure may cause skin dryness or cracking.

#### Aspiration hazard
May be fatal if swallowed and enters airways. (Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates; Hydrocarbons, C10, aromatics, <1% naphthalene)

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

#### Additional information on tests
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

### SECTION 12: Ecological information

#### 12.1. Toxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Data Sheet
according to Regulation (EC) No 1907/2006

989 Direct Injector Cleaner MF98900300A
Print date: 28.06.2019  Product code: 11AMF98900300A  Page 9 of 12

CAS No | Chemical name | Aquatic toxicity | Dose | [h] | [d] | Species | Source
--- | --- | --- | --- | --- | --- | --- | ---
64742-48-9 | Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates | Acute fish toxicity | LC50 | > 100 mg/l | 96 h | Pimephales promelas | REACH Registration Dossier
| | Acute algae toxicity | ErC50 | > 1000 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (1998)
| | Acute crustacea toxicity | EC50 | > 100 mg/l | 48 h | Daphnia magna | Study report (2010)

27247-96-7 | 2-Ethylhexyl nitrate | Acute fish toxicity | LC50 | 2 mg/l | 96 h | Danio rerio | Study report (2010)
| | Acute algae toxicity | ErC50 | > 12,6 mg/l | 72 h | Pseudokirchneriella subcapitata | Study report (1998)
| | Acute crustacea toxicity | EC50 | > 12,6 mg/l | 48 h | Daphnia magna | Study report (1998)

104-76-7 | 2-Ethylhexan-1-ol | Acute fish toxicity | LC50 | 17,1 mg/l | 96 h | Leuciscus idus (golden orfe) | Study report (2010)
| | Acute algae toxicity | ErC50 | 11,5 mg/l | 72 h | Scenedesmus subspicatus | Study report (1998)
| | Acute crustacea toxicity | EC50 | 39 mg/l | 48 h | Daphnia magna | Study report (1998)

64742-94-5 | Hydrocarbons, C10, aromatics, <1% naphthalene | Acute fish toxicity | LC50 | >1-<=10 mg/l | 96 h | Pimephales promelas (fathead minnow) | Study report (2010)
| | Acute algae toxicity | ErC50 | >1-<=10 mg/l | 96 h | Scenedesmus subspicatus | Study report (2010)
| | Acute crustacea toxicity | EC50 | >1-<=10 mg/l | 48 h | Daphnia magna | Study report (2010)

12.2. Persistence and degradability
The product has not been tested.

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>
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<td>27247-96-7</td>
<td>2-Ethylhexyl nitrate</td>
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<td>104-76-7</td>
<td>2-Ethylhexan-1-ol</td>
<td>2.9</td>
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BCF

<table>
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<th>Chemical name</th>
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<td>144,3</td>
<td>calculated</td>
<td>Other company data</td>
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</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

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and mother liquors; hazardous waste

Waste disposal number of used product

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and mother liquors; 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
This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 3295
14.2. UN proper shipping name: HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es): III
14.4. Packing group: III
Hazard label: 3
Classification code: F1
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 3295
14.2. UN proper shipping name: HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es): III
14.4. Packing group: III
Hazard label: 3
Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 3295
14.2. UN proper shipping name: HYDROCARBONS, LIQUID, N.O.S. (2-Ethylhexyl nitrate)
989 Direct Injector Cleaner MF98900300A

14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3
Marine pollutant: yes
Special Provisions: 223
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)
14.1. UN number: UN 3295
14.2. UN proper shipping name: HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3
Special Provisions: A3 A324
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
ENVIROMENTALLY HAZARDOUS: yes
Danger releasing substance: 2-Ethylhexyl nitrate

14.6. Special precautions for user
Warning: Combustible liquid.

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: Hydrocarbons, C9 - C11, n-alkanes, iso-alkanes, cyclics, < 2 % aromates
2010/75/EU (VOC): No information available.
2004/42/EC (VOC): EU/CH 84,76/49,24

Additional information
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

15.2. Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.
SECTION 16: Other information

Changes
The data sheet contains changes from the previous version in section(s): 2.

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)
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H302+H332 Harmful if swallowed or if inhaled.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- EUH044 Risk of explosion if heated under confinement.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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.)