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

1.1. Product identifier

291 Metall-Schutzlack K2291030AB

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

1.3. Details of the supplier of the safety data sheet

TUNAP GmbH & Co. KG
Company name: TUNAP GmbH & Co. KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen
Telephone: +49 (0) 8171/1600 - 0
Fax: +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
- Skin corrosion/irritation: Skin Irrit. 2
- Serious eye damage/eye irritation: Eye Irrit. 2
- Specific target organ toxicity - single exposure: STOT SE 3
- Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:
- Extremely flammable aerosol.
- Pressurised container: May burst if heated.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling:
- Ethyl acetate
- Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane
- Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

Signal word: Danger

Pictograms:

Hazard statements:
- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
Precautionary statements

H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

2.3. Other hazards
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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>
</thead>
<tbody>
<tr>
<td>115-10-6</td>
<td>dimethyl ether</td>
<td>25 - 50 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>204-065-8</td>
<td>603-019-00-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>115-10-6</td>
<td>Flm. Gas 1; H220</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>141-78-6</td>
<td>ethyl acetate</td>
<td>10 - 20 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>205-500-4</td>
<td>607-022-00-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>921-024-6</td>
<td>01-2119475514-35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92128-66-0</td>
<td>Flm. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha (petroleum), aromatic, light</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>918-668-5</td>
<td>01-2119455851-35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7440-66-6</td>
<td>zinc powder - zinc dust (stabilised)</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>231-175-3</td>
<td>030-001-01-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>5 - &lt; 10 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>215-535-7</td>
<td>601-022-00-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>0.1 - &lt; 1 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>202-849-4</td>
<td>601-023-00-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified</td>
<td>0.1 - &lt; 1 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>265-199-0</td>
<td>01-2119455851-35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1314-13-2</td>
<td>zinc oxide</td>
<td>0.1 - &lt; 1 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>215-222-5</td>
<td>030-013-00-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110-54-3</td>
<td>n-hexane</td>
<td>0.1 - &lt; 1 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>203-777-6</td>
<td>601-037-00-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 unconscious person or a person with cramps.
### After inhalation
Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

### After contact with skin
Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

### After contact with eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

### After ingestion
Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

#### 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. Call a POISON CENTER. Symptoms can occur only after several hours.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media
- Suitable extinguishing media
- Unsuitable extinguishing media
  - Full water jet

#### 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.

### 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
Disposal: see section 13

### 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).
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

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
Protect from frost. Protect against direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

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>7429-90-5</td>
<td>Aluminium metal, respirable dust</td>
<td>-</td>
<td>4</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td>115-10-6</td>
<td>Dimethyl ether</td>
<td>400</td>
<td>766</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500</td>
<td>958</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>141-78-6</td>
<td>Ethyl acetate</td>
<td>200</td>
<td>-</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>-</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<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>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>
<tr>
<td>110-54-3</td>
<td>n-Hexane</td>
<td>20</td>
<td>72</td>
<td></td>
<td>TWA (8 h)</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>
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.

Protective and hygiene measures
   Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

Eye/face protection
   Suitable eye protection: Tightly sealed safety glasses.
   DIN EN 166

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. Take off immediately all contaminated clothing and wash it before reuse.

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: AX
   Observe the wear time limits as specified by the manufacturer.
   Observe legal regulations and provisions.

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>silver</td>
</tr>
<tr>
<td>Odour:</td>
<td>solvent like</td>
</tr>
</tbody>
</table>

Test method

pH-Value (at 20 °C): 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>-24 °C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>-40 °C</td>
</tr>
</tbody>
</table>

Flammability

| Solid: | not applicable |

Revision No: 1,06 - Replaces version: 1,05

Print date: 20.12.2018
Gas:
Lower explosion limits: 0,9 vol. %
Upper explosion limits: 11,5 vol. %
Ignition temperature: ca. 200 °C

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

Decomposition temperature: not determined

Oxidizing properties
Not oxidising.

Vapour pressure: not determined
Density (at 20 °C): 0,9925 g/cm³ ASTM D 1475
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
Partition coefficient: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information
Solid content: not determined
density: Data apply to technical substance.
pressure: 20°C: 4,0 bar

SECTION 10: Stability and reactivity

10.1. Reactivity
Extremely flammable aerosol.

10.2. Chemical stability
The product is stable under normal conditions.

10.3. Possibility of hazardous reactions
Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

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. Take precautionary measures against static discharges.

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
Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-78-6</td>
<td>ethyl acetate</td>
<td>oral</td>
<td>LD50</td>
<td>5620</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt;20000</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation</td>
<td>LC50</td>
<td>1600</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation</td>
<td>LC50</td>
<td>&gt; 23,3</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha (petroleum), aromatic, light</td>
<td>oral</td>
<td>LD50</td>
<td>3592</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>oral</td>
<td>LD50</td>
<td>4300</td>
<td>Rat</td>
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</tr>
<tr>
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<td></td>
<td>dermal</td>
<td>LD50</td>
<td>1700</td>
<td>Rabbit</td>
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<td></td>
<td></td>
<td>inhalation</td>
<td>LC50</td>
<td>21,7</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>oral</td>
<td>LD50</td>
<td>3500</td>
<td>Rat</td>
<td>GESTIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>15400</td>
<td>Rabbit</td>
<td>GESTIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation</td>
<td>LC50</td>
<td>17,2</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1314-13-2</td>
<td>zinc oxide</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 5000</td>
<td>Rat</td>
<td>IUCLID</td>
</tr>
<tr>
<td>110-54-3</td>
<td>n-hexane</td>
<td>oral</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation</td>
<td>LC50</td>
<td>&gt; 31,86</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>
Irritation and corrosivity
Causes skin irritation.
Causes serious eye irritation.

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.
May cause drowsiness or dizziness. (ethyl acetate)

STOT-repeated exposure
Based on available data, the classification criteria are not met.

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 regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity
Toxic 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>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>115-10-6</td>
<td>dimethyl ether</td>
<td>Acute fish toxicity</td>
<td>LC₅₀</td>
<td>&gt; 4100</td>
<td>96 h Poecilia reticulata (Guppy)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC₅₀</td>
<td>&gt; 154</td>
<td>96 h Green Algae</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC₅₀</td>
<td>&gt; 4400</td>
<td>48 h Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>141-78-6</td>
<td>ethyl acetate</td>
<td>Acute fish toxicity</td>
<td>LC₅₀</td>
<td>230 mg/l</td>
<td>96 h Pimephales promelas (fathead minnow)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC₅₀</td>
<td>165 mg/l</td>
<td>48 h Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C₆-C₇, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
<td>Acute fish toxicity</td>
<td>LC₅₀</td>
<td>&gt; 1-10</td>
<td>96 h Pimephales promelas</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC₅₀</td>
<td>&gt; 10 - 100 mg/l</td>
<td>72 h Pseudokirchneriella subcapitata</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC₅₀</td>
<td>&gt; 1-10</td>
<td>48 h Daphnia magna</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 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</td>
<td>96 h Pseudokirchneriella 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 Daphnia magna</td>
<td></td>
</tr>
<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 Oncorhynchus mykiss (Rainbow trout)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC₅₀</td>
<td>&gt; 100</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</td>
<td>48 h 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 GESTIS</td>
<td></td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

The product has not been tested.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C₆-C₇, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
<td>OECD Guideline 301 F</td>
</tr>
</tbody>
</table>

Easily biodegradable (concerning to the criteria of the OECD)

**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>115-10-6</td>
<td>dimethyl ether</td>
<td>0,1</td>
</tr>
<tr>
<td>141-78-6</td>
<td>ethyl acetate</td>
<td>-0,24</td>
</tr>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
<td>3,4 - 5,2</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>3,15</td>
</tr>
<tr>
<td>110-54-3</td>
<td>n-hexane</td>
<td>3,9</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 substance itself.

SECTION 14: Transport information

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1
Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Safety Data Sheet

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Inland waterways transport (ADN)

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

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS (zinc powder - zinc dust (stabilized))
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2, see SP63
Marine pollutant: yes
Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: See SP277
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1
Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance: zinc powder - zinc dust (stabilized)

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
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EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: Solvent naphtha (petroleum), aromatic, light; Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified
Entry 29: Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane

2010/75/EU (VOC): 83.09 % (824.663 g/l)
2004/42/EC (VOC): No information available.
Subcategory according to Directive 2004/42/EC: Special finishes - All types, VOC limit value: 840 g/l

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Aerosol directive (75/324/EEC)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
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

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

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)

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
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.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Safety Data Sheet

according to Regulation (EC) No 1907/2006

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Revision date: 11.09.2018
Product code: 11AFX291030AB

H411 Toxic to aquatic life with long lasting effects.
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.)