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

1.1. Product identifier
372 Elektronik-Fett 07372020W

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

Use of the substance/mixture
Lubricant, lubricants and release products

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:
Aerosol: Aerosol 1
Skin corrosion/irritation: Skin Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3
Hazardous to the aquatic environment: Aquatic Chronic 3

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

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:

Hazard statements
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
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/face protection..
P271 Use only outdoors or in a well-ventilated area.
P302+P352 IF ON SKIN: Wash with plenty of Water and soap..
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

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>GHS Classification</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-28-5</td>
<td>isobutane</td>
<td>200-857-2</td>
<td>601-004-00-0</td>
<td>01-2119485395-27</td>
<td>Fl. Gas 1, Liquefied gas: H220 H280</td>
<td>25 - &lt; 50 %</td>
</tr>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
<td>921-024-6</td>
<td>01-2119475514-35</td>
<td></td>
<td>Fl. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>64742-49-0</td>
<td>Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics</td>
<td>927-510-4</td>
<td>01-2119475515-33</td>
<td></td>
<td>Fl. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>74-98-6</td>
<td>propane</td>
<td>200-827-9</td>
<td>601-003-00-5</td>
<td>01-2119486944-21</td>
<td>Fl. Gas 1, Liquefied gas; H220 H280</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td>67-63-0</td>
<td>2-Propanol</td>
<td>200-661-7</td>
<td>603-117-00-0</td>
<td>01-2119457558-25</td>
<td>Fl. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336</td>
<td>1 - &lt; 3 %</td>
</tr>
<tr>
<td>106-97-8</td>
<td>butane</td>
<td>203-448-7</td>
<td>601-004-00-0</td>
<td>01-2119474691-32</td>
<td>Fl. Gas 1, Liquefied gas; H220 H280</td>
<td>1 - &lt; 3 %</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. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin
Wash with plenty of water. Change contaminated clothing.

After contact with eyes
Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion
Rinse mouth immediately and drink plenty of water.

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
Carbon dioxide (CO2). Foam. Extinguishing powder.

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
Combustible. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters
Use appropriate respiratory protection.

Additional information
Use water spray jet to protect personnel and to cool endangered containers. 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
Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions
Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

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 section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion
Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking.
Vapours may 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 sources of ignition - No smoking.

Hints on joint storage
Do not store together with: Material, rich in oxygen, oxidizing.

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

<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>106-97-8</td>
<td>Butane</td>
<td>600</td>
<td>1450</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750</td>
<td>1810</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Propan-2-ol</td>
<td>400</td>
<td>999</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500</td>
<td>1250</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</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>
</tr>
</thead>
<tbody>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>2035 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>773 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>608 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>699 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>699 mg/kg bw/day</td>
</tr>
<tr>
<td>64742-49-0</td>
<td>Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics</td>
<td>Worker DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>2085 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Worker DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>300 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>inhalation</td>
<td>systemic</td>
<td>447 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>dermal</td>
<td>systemic</td>
<td>149 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consumer DNEL, long-term</td>
<td>oral</td>
<td>systemic</td>
<td>149 mg/kg bw/day</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
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**
Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

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

**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**
Only wear fitting, comfortable and clean protective clothing.

**Respiratory protection**
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Suitable respiratory protective equipment: Combination filter device (DIN EN 141).
Filtering device with filter or ventilator filtering device of type: AX

**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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Colour:</td>
<td>blue</td>
</tr>
<tr>
<td>Odour:</td>
<td>solvent like</td>
</tr>
<tr>
<td>pH-Value (at 20 °C):</td>
<td>not applicable</td>
</tr>
<tr>
<td>Melting point:</td>
<td>-40 °C</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>-80 °C</td>
</tr>
<tr>
<td>Sublimation point:</td>
<td>not available</td>
</tr>
<tr>
<td>Softening point:</td>
<td>not available</td>
</tr>
<tr>
<td>Flash point:</td>
<td>not available</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>1 vol. %</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>9,4 vol. %</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not available</td>
</tr>
<tr>
<td>Density (at 20 °C):</td>
<td>0,796 g/cm³ DIN 51757</td>
</tr>
</tbody>
</table>
Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Partition coefficient: No information available.
Viscosity / dynamic: No information available.
Viscosity / kinematic: No information available.
Flow time: No information available.
Vapour density: No information available.
Evaporation rate: No information available.
Solvent separation test: No information available.
Solvent content: No information available.

9.2. Other information
Solid content: No information available.

density: Data apply to technical substance.
pressure: 3.5 bar (20°C)

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

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 heat. Ignition hazard.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
No information available.

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
Based on available data, the classification criteria are not met.
Irritation and corrosivity
Causes skin irritation.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.
Vapours may cause drowsiness and dizziness.

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 drowsiness or dizziness.

STOT-repeated exposure
Based on available data, the classification criteria are not met.
Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

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

Specific effects in experiment on an animal
No information available.

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>75-28-5</td>
<td>isobutane</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>91,42 mg/l</td>
<td>96 h</td>
<td>Fish, no other information</td>
<td>United States Environmental Protection A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>19,37 mg/l</td>
<td>96 h</td>
<td>Algae</td>
<td>USEPA OPPT Risk Assessment Division 200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>69,43 mg/l</td>
<td>48 h</td>
<td>Daphnia sp.</td>
<td>USEPA OPPT Risk Assessment Division 200</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 mg/l</td>
<td>96 h</td>
<td>Pimephales promelas</td>
<td>Study report (1995)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>10 - 30 mg/l</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>SIDS Initial Assessment Report For SIAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>&gt; 1-10 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>SIDS Initial Assessment Report For SIAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish toxicity</td>
<td>NOEC</td>
<td>2,045 mg/l</td>
<td>28 d</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td>CONCAWE, Brussels, Belgium (2010)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crustacea toxicity</td>
<td>NOEC</td>
<td>1 mg/l</td>
<td>21 d</td>
<td>Daphnia magna</td>
<td>SIDS Initial Assessment Report For SIAM</td>
</tr>
<tr>
<td>64742-49-0</td>
<td>Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>&gt; 1 - 10 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
<td>SIDS Initial Assessment Report For SIAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>12 mg/l</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>SIDS Initial Assessment Report For SIAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>&gt; 1 - 10 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>SIDS Initial Assessment Report For SIAM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish toxicity</td>
<td>NOEC</td>
<td>1,534 mg/l</td>
<td>28 d</td>
<td>Oncorhynchus mykiss</td>
<td>CONCAWE, Brussels, Belgium (2010)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crustacea toxicity</td>
<td>NOEC</td>
<td>1 mg/l</td>
<td>21 d</td>
<td>Daphnia magna</td>
<td>SIDS Initial Assessment Report For SIAM</td>
</tr>
<tr>
<td>74-98-6</td>
<td>propane</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>49,9 mg/l</td>
<td>96 h</td>
<td>Fish, no other information</td>
<td>United States Environmental Protection A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>19,37 mg/l</td>
<td>96 h</td>
<td>Algae</td>
<td>USEPA OPPT Risk Assessment Division 200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>69,43 mg/l</td>
<td>48 h</td>
<td>Daphnia sp.</td>
<td>USEPA OPPT Risk Assessment Division 200</td>
</tr>
<tr>
<td>67-63-0</td>
<td>2-Propanol</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>9640 mg/l</td>
<td>96 h</td>
<td>Pimephales promelas</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>&gt; 100 mg/l</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>&gt; 100 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>106-97-8</td>
<td>butane</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>49,9 mg/l</td>
<td>96 h</td>
<td>Fish, no other information</td>
<td>United States Environmental Protection A</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
</tr>
<tr>
<td>Evaluation</td>
<td></td>
</tr>
<tr>
<td>OECD Guideline 301 F</td>
<td>98%</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-28-5</td>
<td>Isobutane</td>
</tr>
<tr>
<td>92128-66-0</td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, &lt; 5% n-hexane</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
</tr>
<tr>
<td>67-63-0</td>
<td>2-Propanol</td>
</tr>
<tr>
<td>106-97-8</td>
<td>Butane</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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
Contaminated packaging
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

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  
  - **Transport category:** 2  
  - **Tunnel restriction code:** D

#### 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  
14.3. **Transport hazard class(es):** 2.1  
14.4. **Packing group:** -  
  - **Hazard label:** 2.1  
  - **Classification code:** 63, 190, 277, 327, 344, 959  
  - **Special Provisions:** 1000 mL  
  - **Limited quantity:**  
  - **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
14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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: isobutane; butane
Entry 29: Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane; Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

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

Additional information

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

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.

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)
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
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 (division of the American Chemical Society)
DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level
WEL (UK): Workplace Exposure Limits
TWA (EC): Time-Weighted Average
ATE: Acute Toxicity Estimate
STEL (EC) Short Term Exposure Limit
LC50: Lethal Concentration
EC50: half maximal Effective Concentration
ErC50: means EC50 in terms of reduction of growth rate
Relevant H and EUH statements (number and full text)

H220  Extremely flammable gas.
H222  Extremely flammable aerosol.
H225  Highly flammable liquid and vapour.
H229  Pressurised container: May burst if heated.
H280  Contains gas under pressure; may explode if heated.
H304  May be fatal if swallowed and enters airways.
H315  Causes skin irritation.
H319  Causes serious eye irritation.
H336  May cause drowsiness or dizziness.
H411  Toxic to aquatic life with long lasting effects.
H412  Harmful 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.)