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

1.1. Product identifier
Trade name/designation:
T 86

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture:
Preservation of wire ropes or rope cores

1.3. Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor):
Gustav Wolf Drahtseilwerk GmbH
Sundernstr. 40
D 33332 Gütersloh
Germany
Telephone: +49 (0) 5241 8760
Telefax: +49 (0) 5241 876180
E-mail: info@gustav-wolf.de
Website: www.gustav-wolf.de
E-mail (competent person): sales.wirerope@gustav-wolf.de

1.4. Emergency telephone number
24h: +49 (0) 361 730730

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Hazard classes and hazard categories</th>
<th>Hazard statements</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration hazard (Asp. Tox. 1)</td>
<td>H304: May be fatal if swallowed and enters airways.</td>
<td></td>
</tr>
</tbody>
</table>

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms:

- GHS08 Health hazard

Signal word: Danger

hazard statements for health hazards
H304 May be fatal if swallowed and enters airways.

Supplemental Hazard information (EU)
EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements Response
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
P331 Do NOT induce vomiting.
2.3. Other hazards

Adverse physicochemical effects:
Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Adverse human health effects and symptoms:
------

Adverse environmental effects:
------

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:
Solvent based preparation of hydrocarbons / petroleum products.

Hazardous ingredients / Hazardous impurities / Stabilisers:

<table>
<thead>
<tr>
<th>product identifiers</th>
<th>Substance name</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CL P]</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC No.: 918-481-9</td>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</td>
<td>Asp. Tox. 1</td>
<td>50 Wt %</td>
</tr>
<tr>
<td>REACH No.: 01-2119457273-39</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
If unconscious place in recovery position and seek medical advice. When in doubt or if symptoms are observed, get medical advice.

Following inhalation:
Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse.

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

After ingestion:
Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Get immediate medical advice/attention.

Self-protection of the first aider:
Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed
Aspiration hazard

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:

Unsuitable extinguishing media:
High power water jet. Strong water jet.
T 86

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

Hazardous combustion products:
Carbon monoxide. Carbon dioxide (CO2). Sulphur dioxide (SO2). Hydrocarbons.

5.3. Advice for firefighters
Use water spray jet to protect personnel and to cool endangered containers. In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Remove persons to safety. Eliminate all ignition sources if safe to do so.

Protective equipment:
Wear personal protection equipment (refer to section 8).

6.1.2. For emergency responders

Personal protection equipment:
Wear personal protection equipment (refer to section 8).

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

6.3. Methods and material for containment and cleaning up

For containment:
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:
Collect in closed and suitable containers for disposal.

6.4. Reference to other sections
Safe handling: see section 7 / Disposal: see section 13

6.5. Additional information
No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Avoid contact with skin, eyes and clothes.

Fire prevent measures:
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Advices on general occupational hygiene
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep only in the original container in a cool, well-ventilated place. Ensure adequate ventilation of the storage area.
Requirements for storage rooms and vessels:
Keep container tightly closed and dry. Protect containers against damage.

Hints on storage assembly:
Do not store together with: Oxidising agent

7.3. Specific end use(s)
Recommendation:
Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls
Technical measures and the application of suitable work processes have priority over personal protection equipment.

8.2.2. Personal protection equipment

Eye/face protection:
Wear eye/face protection. In case of increased risk, additionally Face protection umbrella.

Skin protection:
Wear protective work clothing. Chemical resistant safety shoes. Chemical resistant protective gloves (EN 374)

Respiratory protection:
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

8.2.3. Environmental exposure controls
Avoid release to the environment.

8.3. Additional information
No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Physical state: liquid
Odour: characteristic

Colour: golden

Safety relevant basis data

<table>
<thead>
<tr>
<th>parameter</th>
<th>at °C</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>187 – 219 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 63 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition temperature in °C</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>0.6 – 7 Vol-%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water solubility (g/L)</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
T 86

<table>
<thead>
<tr>
<th>parameter</th>
<th>at °C</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td></td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>&lt; 20.5 mm²/s</td>
<td>40 °C</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information
Information for boiling range, flash point and explosion limits only relate to the organic solvent.

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

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

10.3. Possibility of hazardous reactions
Vapours can form explosive mixtures with air.

10.4. Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

10.5. Incompatible materials
Oxidising agent

10.6. Hazardous decomposition products
Toxic fumes (of incomplete combustion or thermal decomposition).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance name</th>
<th>Toxicological information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</td>
<td>LD₅₀ oral: &gt;5,000 mg/kg (rat) OECD 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD₅₀ dermal: &gt;2,000 mg/kg (rat) OECD 402</td>
</tr>
</tbody>
</table>

Acute oral toxicity:
There are no data available on the preparation/mixture itself.

Acute dermal toxicity:
There are no data available on the preparation/mixture itself.

Acute inhalation toxicity:
There are no data available on the preparation/mixture itself.

Skin corrosion/irritation:
Repeated exposure may cause skin dryness or cracking.

Germ cell mutagenicity:
No indications of human germ cell mutagenicity exist.

Carcinogenicity:
No indications of human carcinogenicity exist.

Reproductive toxicity:
No indications of human reproductive toxicity exist.

Aspiration hazard:
May be fatal if swallowed and enters airways.

Additional information:
Processing vapours can irritate the respiratory tracts, skin and eyes. Contains no substances of very high concern (SVHC).
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)
Revision date: 22-Aug-2016
Print date: 24-Aug-2016
Version: 3.0
Page 6/7

SECTION 12: Ecological information

12.1. Toxicity
Aquatic toxicity:
There are no data available on the preparation/mixture itself.

Terrestrial toxicity:
There are no data available on the preparation/mixture itself.

12.2. Persistence and degradability
Biodegradation:
There are no data available on the preparation/mixture itself.

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

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

12.6. Other adverse effects
No data available

SECTION 13: Disposal considerations

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

13.1.1. Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV

Waste code product:
Remark:
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste code packaging:
Remark:
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options
Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Completely emptied packages can be recycled.

13.2. Additional information
No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.
not relevant

14.2. UN proper shipping name
not relevant

14.3. Transport hazard class(es)
not relevant
14.4. Packing group
not relevant

14.5. Environmental hazards
not relevant

14.6. Special precautions for user
not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the
substance or mixture
No data available

15.2. Chemical Safety Assessment
No data available

15.3. Additional information
No data available

SECTION 16: Other information

16.1. Indication of changes
No data available

16.2. Abbreviations and acronyms
See overview table at www.euphrac.eu

16.3. Key literature references and sources for data
Safety data sheets of the suppliers of raw materials.

16.4. Classification for mixtures and used evaluation method according to
regulation (EC) No 1272/2008 [CLP]
Classification according to Regulation (EC) No 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Hazard classes and hazard categories</th>
<th>Hazard statements</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration hazard (Asp. Tox. 1)</td>
<td>H304: May be fatal if swallowed and enters airways.</td>
<td></td>
</tr>
</tbody>
</table>

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
</tbody>
</table>

16.6. Training advice
No data available

16.7. Additional information
No data available