alwitra GmbH & Co. Klaus Göbel

Safety Data Sheet

according to Regulation (EC) No 1907/2006

alwitra L40 cleaner
Product code: RCSO-AWT-003

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

1.1. Product identifier
alwitra L40 cleaner

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

Use of the substance/mixture
Cleaning thinner

Uses advised against

Only use for the intended purpose.
The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet
Company name: alwitra GmbH & Co. Klaus Göbel
Street: Am Forst 1
Place: D-54296 Trier-Irsch
Telephone: 0651 - 9102 - 0
Telefax: 0651 - 9102 - 294
E-mail (Contact person): J.Loecherbach@alwitra.de
Responsible Department: Abteilung Anwendungstechnik

1.4. Emergency telephone number:
Poison Control Center Berlin (24h): + 49 (0)30 3068 6700
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008

Hazard categories:
Flammable liquid: Flam. Liq. 2
Aspiration hazard: Asp. Tox. 1
Skin corrosion/irritation: Skin Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3
Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:
Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin 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
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Hydrocarbons, C6, isoalkanes, <5% n-hexane

Signal word: Danger

Pictograms:
Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic 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.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

2.3. Other hazards
The components in this mixture do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
Solvent mixture
Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
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<td>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</td>
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<tr>
<td></td>
<td>927-510-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</td>
<td>25-&lt;50%</td>
</tr>
<tr>
<td></td>
<td>926-605-8</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</td>
<td>10-&lt;20%</td>
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<td></td>
</tr>
<tr>
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<td>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</td>
<td>10-&lt;20%</td>
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<td></td>
<td>931-254-9</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>67-64-1 acetone; propan-2-one; propanone</td>
<td>2.5-&lt;10%</td>
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<td></td>
<td>200-662-2</td>
<td>606-001-00-8</td>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>110-54-3 n-hexane</td>
<td>2.5-&lt;3%</td>
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<tr>
<td></td>
<td>203-777-6</td>
<td>601-037-00-0</td>
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<td>Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H361f *** H304 H373 ** H315 H336 H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td>110-82-7 cyclohexane</td>
<td>0.5-&lt;1,5%</td>
</tr>
<tr>
<td></td>
<td>203-806-2</td>
<td>601-017-00-1</td>
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<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
In case of troubles or persistent symptoms, consult a doctor/physician.
Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

After inhalation
Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of irregular breathing or respiratory arrest, perform artificial respiration.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. Call a physician immediately.

**After ingestion**
Rinse mouth, spit liquid again. Do NOT induce vomiting. Have victim drink large quantities of water, with active charcoal if possible. Call a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed**
Following eye contact: Causes serious eye irritation.
Following inhalation: May cause respiratory irritation.
After Ingestion: Harmful if swallowed.
Suspected of causing cancer.

**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). Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

*Unsuitable extinguishing media*
High power water jet.

**5.2. Special hazards arising from the substance or mixture**
Vapours may form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.
Possible ignition over greater distances. Thermal decomposition can lead to harmful gases and vapours. May form explosive peroxides.

**5.3. Advice for firefighters**
Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**
Do not allow to enter into surface water or drains. Use water spray jet to protect personnel and to cool endangered containers.

### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Provide adequate ventilation. Keep away from sources of ignition - No smoking. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**
Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**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.
Do not rinse with water or watery detergents.

**6.4. Reference to other sections**
Safe handling: see section 7
Personal precautions: refer to section 8.
Disposal: see section 13

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Advice on safe handling
Provide adequate ventilation as well as local exhaust at critical locations. Handle and open container with care.

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

7.3. Specific end use(s)
Cleaning thinner

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
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</thead>
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<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>500</td>
<td>1210</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1500</td>
<td>3620</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
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<tr>
<td>Cyclohexane</td>
<td>110-82-7</td>
<td>100</td>
<td>350</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
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<td></td>
<td></td>
<td>300</td>
<td>1050</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td>n-Hexane</td>
<td>110-54-3</td>
<td>20</td>
<td>72</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Protective and hygiene measures
Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Eye/face protection
Tightly fitting safety glasses with side shields.

Hand protection

Protect skin by using skin protective cream. Wear suitable gloves.

Suitable material: Butyl rubber. FKM (fluoro rubber).

Thickness of glove material: \( \geq 0.7 \text{mm} \)

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.

Skin protection
Full cover clothing covering arms and legs.

Respiratory protection

Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.
Respirator with combination filter for vapour and particles. Filter type A-P2.

**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>liquid</td>
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<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not determined</td>
</tr>
</tbody>
</table>

#### Changes in the physical state
- Melting point: not determined
- Initial boiling point and boiling range: 55 °C
- Flash point: -25 °C

**Explosive properties**
- The product is not explosive, however, formation of explosive mixtures are possible.
- Lower explosion limits: 1,1 vol. %
- Upper explosion limits: 13,0 vol. %
- Ignition temperature: 540 °C

**Auto-ignition temperature**
- Solid: The product is not self-igniting.
- Gas: not determined

**Decomposition temperature:** not determined

**Oxidizing properties**
- not determined

**Vapour pressure:** 247 hPa

**Density (at 20 °C):** 0,71 g/cm³

**Water solubility:** insoluble

**Partition coefficient:** not determined

**Viscosity / dynamic:** 10 mPa·s ISO 2555

**Viscosity / kinematic:** not determined

**Vapour density:** not determined

**Solvent content:** 100 %

### 9.2. Other information

No further information available.

**SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactivity under regular conditions.

#### 10.2. Chemical stability

The product is stable under regular conditions.

#### 10.3. Possibility of hazardous reactions
Avoid contact with oxidizing agents.
In the presence of oxygen and light: May form explosive peroxides.

10.4. Conditions to avoid
No information available.

10.5. Incompatible materials
Oxygen. Oxidizing agents, strong.

10.6. Hazardous decomposition products
Thermal decomposition can lead to harmful gases and vapours.
In case of fire: It may produce hazardous fumes like carbon monoxide or carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</td>
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<td></td>
</tr>
<tr>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>5840</td>
</tr>
<tr>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>2920</td>
</tr>
<tr>
<td>inhalative (4 h) vapour</td>
<td>LC50 mg/l</td>
<td>25.2</td>
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<tr>
<td>acetone; propan-2-one; propanone</td>
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<tr>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>5800</td>
</tr>
<tr>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>20000</td>
</tr>
<tr>
<td>inhalative (4 h) vapour</td>
<td>LC50 mg/l</td>
<td>76</td>
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</table>

Irritation and corrosivity
Causes skin irritation.
Serious eye damage/eye irritation: 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.

STOT-single exposure
May cause drowsiness or dizziness. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane)

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

Aspiration hazard
May be fatal if swallowed and enters airways. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C6, isoalkanes, <5% n-hexane; n-hexane; cyclohexane)

Further information
The product is skin resorptive.
SECTION 12: Ecological information

12.1. Toxicity

<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>
<th>Method</th>
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<tbody>
<tr>
<td></td>
<td>Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>11,4 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss (Rainbow trout)</td>
<td>Geiger et al. 1990</td>
<td>110-54-3 n-hexane</td>
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<tr>
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<td>EC50</td>
<td>3 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
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<td></td>
<td></td>
<td>NOEC</td>
<td>0,17 mg/l</td>
<td>21 d</td>
<td>Daphnia magna</td>
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<td></td>
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</tbody>
</table>

12.2. Persistence and degradability

No further information available.

12.3. Bioaccumulative potential

No further information available.

Partition coefficient n-octanol/water

<table>
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<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
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<tbody>
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<td>67-64-1 acetone; propan-2-one; propanone</td>
<td>-0,24</td>
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</tr>
<tr>
<td>110-54-3 n-hexane</td>
<td>3,9</td>
<td></td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Disposal according to official regulations. Do not dispose with household waste. Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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

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 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Classification code: F1
Special Provisions: 274 601 640D
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Classification code: F1
Special Provisions: 274 601 640D
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Special Provisions: A3
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: yes

Danger releasing substance: cyclohexane, n-hexane, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

14.6. Special precautions for user
No special precautions known.

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 3: acetone; propan-2-one; propanone; n-hexane
   - Entry 57: cyclohexane
2004/42/EC (VOC): 81,67%

Additional information
   - Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable
   - Regulation (EC) No. 648/2004 (Detergents regulation): not applicable
   - Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable
   - Regulation (EC) No 689/2008 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).
   - This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none
   - This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

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. Observe employment restrictions for women of child-bearing age.
15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been carried out.

SECTION 16: Other information

Changes

Version 20 - General update - 26.04.2017

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)
CAS: Chemical Abstracts Service
EC: Effective Concentration
EG: European Community (Europäische Gemeinschaft)
EN: European Norm
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
CLP: Classification, Labeling, Packaging
IUCLID: International Uniform Chemical Information Database
LC: Lethal concentration
LD: Lethal dose
log Kow: Octanol/water partition coefficient
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
PBT: Persistent, bio-cumulative, toxic
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
TRGS: Technische Regeln für Gefahrstoffe
VOC: Volatile Organic Compounds
vPvB: very persistent and very bio-cumulative
VwVwS: Administrative Regulation for Water Pollutants
WGK: German Water Hazard Class
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
OECD: Organisation for Economic Co-operation and Development
PNEC: Predicted No Effect Concentration
STOT: Specific Target Organ Toxicity

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2; H225</td>
<td>On basis of test data</td>
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<tr>
<td>Asp. Tox. 1; H304</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3; H336</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 2; H411</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

H224 Extremely flammable liquid and vapour.
## Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*