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

1.1. Product identifier
Vita VM LC CLEANER

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Use as laboratory reagent

1.3. Details of the supplier of the safety data sheet
Company name: VITA Zahnfabrik H. Rauter GmbH & Co. KG
Post-office box: 1338
79704 Bad Säckingen
Telephone: +49(0)7761-562-0 Telefax: +49(0)7761-562-299
e-mail: info@vita-zahnfabrik.com
Internet: www.vita-zahnfabrik.com

1.4. Emergency telephone number:
+49-(0)761-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GB 30000-2013
Hazard categories:
Flammable liquid: Flam. Liq. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Hazard Statements:
Highly flammable liquid and vapour.
Causes serious eye irritation.

2.2. Label elements
GB 30000-2013
Signal word: Danger
Pictograms:

Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>ethyl alcohol</td>
<td>95 - &lt; 100 %</td>
<td>200-578-6</td>
<td>603-002-00-5</td>
<td>01-2119457610-43</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>butanone; ethyl methyl ketone</td>
<td>1 - &lt; 5 %</td>
<td>201-159-0</td>
<td>606-002-00-3</td>
<td>01-2119457290-43</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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.

- **After contact with skin**
  - Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

- **After contact with eyes**
  - 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**
  - Rinse mouth immediately and drink plenty of water.

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

- No information available.

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**
  - Water.

5.2. Special hazards arising from the substance or mixture

- Highly flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

- In case of fire: Wear self-contained breathing apparatus.

Additional information

- Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid
contact with skin, eyes and clothes. Use personal protection equipment.

6.2. **Environmental precautions**
Do not allow uncontrolled discharge of product into the environment. Danger of explosion

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**
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**
No special measures are necessary.

**Advice on protection against fire and explosion**
- Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.
- Vapours can form explosive mixtures with air.

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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on storage compatibility**
- Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

**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>78-93-3</td>
<td>Butan-2-one (methyl ethyl ketone)</td>
<td>200</td>
<td>600</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>300</td>
<td>899</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000</td>
<td>1920</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>

**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>78-93-3</td>
<td>Butan-2-one</td>
<td>butan-2-one</td>
<td>70 μmol/L</td>
<td>urine</td>
<td>Post shift</td>
</tr>
</tbody>
</table>

8.2. **Exposure controls**

**Protective and hygiene measures**
- Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection**

Suitable eye protection: goggles.

**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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P Breakthrough time (maximum wearing time) 30 min NBR (Nitrile rubber)

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>colourless</td>
</tr>
</tbody>
</table>

**pH-Value:** not determined

**Changes in the physical state**

- **Melting point:** not determined
- **Initial boiling point and boiling range:** 78 °C
- **Flash point:** 13 °C

**Flammability**

- **Solid:** not applicable
- **Gas:** not applicable

**Lower explosion limits:** not determined

**Upper explosion limits:** not determined

**Auto-ignition temperature**

- **Solid:** not applicable
- **Gas:** not applicable

**Decomposition temperature:** not determined

**Oxidizing properties**

- Not oxidizing.

**Vapour pressure:**

(at 50 °C) <=1100 hPa

**Density:** 0.80000 g/cm³

**Solubility in other solvents**

not determined

**Partition coefficient:** not determined

**Vapour density:** not determined

**Evaporation rate:** not determined
9.2. Other information
Solid content: 0.0 %

SECTION 10: Stability and reactivity

10.1. Reactivity
Highly flammable.

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

10.3. Possibility of hazardous reactions
No known hazardous reactions.

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.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

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>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>64-17-5</td>
<td>ethyl alcohol</td>
<td>dermal</td>
<td>LD50</td>
<td>7060</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td>butane; ethyl methyl ketone</td>
<td>dermal</td>
<td>LD50</td>
<td>5000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes serious eye irritation.
Skin corrosion/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
Based on available data, the classification criteria are not met.

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.

Additional information on tests
This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].
**SECTION 12: Ecological information**

12.1. **Toxicity**
- The product is not: Ecotoxic.

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

12.3. **Bioaccumulative potential**
- The product has not been tested.

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**
- Avoid release to the environment.

**Further information**
- No information available.

**SECTION 13: Disposal considerations**

13.1. **Waste treatment methods**

   **Advice on disposal**
   - Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

   **Contaminated packaging**
   - Wash with plenty of water. Handle contaminated packages in the same way as the substance itself. Waste codes/waste designations according to EWC/AVV

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

14.1. **UN number:**
- UN 1170

14.2. **UN proper shipping name:**
- ETHANOL (ETHYL ALCOHOL)

14.3. **Transport hazard class(es):**
- 3

14.4. **Packing group:**
- II

   **Hazard label:**
   - 3

   **Classification code:**
   - F1

   **Special Provisions:**
   - 144 601

   **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 1170

14.2. **UN proper shipping name:**
- ETHANOL (ETHYL ALCOHOL)

14.3. **Transport hazard class(es):**
- 3

14.4. **Packing group:**
- II
Hazard label: 3

Classification code: F1
Special Provisions: 144 601
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)
14.1. UN number: UN 1170
14.2. UN proper shipping name: ETHANOL (ETHYL ALCOHOL)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Air transport (ICAO-TI/IATA-DGR)
14.1. UN number: UN 1170
14.2. UN proper shipping name: ETHANOL (ETHYL ALCOHOL)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3

Special Provisions: A3 A58 A180
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Exceptional 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: no

14.6. Special precautions for user
Warning: Combustible liquid.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not applicable

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulatory information

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

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

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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)
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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