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

1.1 Product identifier

Trade name: AGC Leitsilberlack Verdünnner

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

No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Ivoclar Vivadent AG
Bendererstrasse 2
LI-9494 Schaan
PRINCIPALITY OF LIECHTENSTEIN

Tel: +423 235 35 35
Fax: +423 235 33 60

Further information obtainable from:
Regulatory Affairs
sds@ivoclarvivadent.com

1.4 Emergency telephone number: +423 / 235 33 13 (Ivoclar Vivadent AG, LI-9494 Schaan, Liechtenstein)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07

Signal word Danger

Hazard-determining components of labelling:
1-ethoxypropan-2-ol
Eucalyptus spp.

Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
Trade name: **AGC Leitsilberlack Verdünner**

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P403+P235 Store in a well-ventilated place. Keep cool.

- **2.3 Other hazards**
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>52125-53-8</td>
<td>1-ethoxypropan-2-ol</td>
<td>50-100%</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3, H226; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
<td>10-25%</td>
</tr>
<tr>
<td>200-578-6</td>
<td>Flam. Liq. 2, H225</td>
<td></td>
</tr>
<tr>
<td>8000-48-4</td>
<td>Eucalyptus spp.</td>
<td>2.5-&lt;10%</td>
</tr>
<tr>
<td>296-357-7</td>
<td>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317</td>
<td></td>
</tr>
<tr>
<td>108-93-0</td>
<td>Cyclohexanol</td>
<td>2.5-&lt;10%</td>
</tr>
<tr>
<td>203-630-6</td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335</td>
<td></td>
</tr>
<tr>
<td>8000-25-7</td>
<td>Rosemary oil</td>
<td>2.5-&lt;10%</td>
</tr>
<tr>
<td>283-291-9</td>
<td>Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
<td></td>
</tr>
</tbody>
</table>

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- **After inhalation:**
  - Supply fresh air and to be sure call for a doctor.
  - In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**
  - Immediately rinse with water.
  - If skin irritation continues, consult a doctor.

- **After eye contact:**
  - Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Seek medical treatment.

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

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:**

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

(Contd. on page 3)
5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
Protective equipment: Wear self-contained respiratory protective device.
Additional information: Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Only adequately trained personnel should handle this product.
For use in dentistry only.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Keep container tightly sealed.
Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS: 64-17-5 ethanol</th>
<th>WEL Long-term value: 1920 mg/m³, 1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 108-93-0 cyclohexanol</td>
<td>WEL Long-term value: 208 mg/m³, 50 ppm</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.
SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Colour: Colourless
    - Odour: Characteristic
    - Odour threshold: Not determined.
  - pH-value: Not applicable.
  - Change in condition
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: Undetermined.
  - Flash point: 12 °C
  - Flammability (solid, gas): Not applicable.
### Trade name: AGC Leitsilberlack Verdünner

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Vapour pressure:** Not determined.

- **Density at 20 °C:** 0.9 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.

- **Solubility in / Miscibility with water:** Soluble.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.

- **9.2 Other information**
  - No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal handling and storage conditions.
- **10.3 Thermal decomposition / conditions to be avoided** No decomposition if used according to specifications.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products** None under normal conditions of storage and use.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **Skin corrosion/irritation** Causes skin irritation.
  - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
  - **Respiratory or skin sensitisation** May cause an allergic skin reaction.
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** May cause drowsiness or dizziness.
  - **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.
SECTION 12: Ecological information

12.1 Toxicity
- Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability
- No further relevant information available.

12.3 Bioaccumulative potential
- No further relevant information available.

12.4 Mobility in soil
- No further relevant information available.

12.5 Ecotoxicological effects
- Remark: Harmful to fish
- Additional ecological information:
- General notes:
  Harmful to aquatic organisms
  Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Danger to drinking water if even small quantities leak into the ground.

12.6 Other adverse effects
- No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

- Uncleaned packaging:
  Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
- ADR/RID/ADN, IMDG, IATA
  UN1993

14.2 UN proper shipping name
- ADR/RID/ADN
  1993 FLAMMABLE LIQUID, N.O.S mixture
- IMDG
  FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), 1-ethoxypropan-2-ol)
- IATA
  FLAMMABLE LIQUID, N.O.S. (ETHANOL, 1-ethoxypropan-2-ol)

14.3 Transport hazard class(es)
- ADR/RID/ADN
  - Class
  3 (F1) Flammable liquids.
**Safety data sheet**

*according to 1907/2006/EC, Article 31*

**Trade name: AGC Leitsilberlack Verdünner**

1. **Label**
   - IMDG, IATA

2. **Class**
   - 3 Flammable liquids.

3. **Label**
   - 3

4. **14.4 Packing group**
   - ADR/RID/ADN, IMDG, IATA
   - II

5. **14.5 Environmental hazards:**
   - Not applicable.

6. **14.6 Special precautions for user**
   - Warning: Flammable liquids.
   - Danger code (Kemler): 33
   - EMS Number: F-E,S-E

7. **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
   - Not applicable.

8. **Transport/Additional information:**
   - ADR/RID/ADN
     - Limited quantities (LQ): 1L
     - Excepted quantities (EQ): Code: E2
       - Maximum net quantity per inner packaging: 30 ml
       - Maximum net quantity per outer packaging: 500 ml
   - Transport category: 2
   - Tunnel restriction code: D/E

9. **IMDG**
   - Limited quantities (LQ): 1L
   - Excepted quantities (EQ): Code: E2
     - Maximum net quantity per inner packaging: 30 ml
     - Maximum net quantity per outer packaging: 500 ml

10. **UN "Model Regulation":**
    - UN 1993 FLAMMABLE LIQUID, N.O.S. MIXTURE, 3, II

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**SECTION 15: Regulatory information**

1. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
   - Directive 2012/18/EU
   - Named dangerous substances - ANNEX I None of the ingredients is listed.
   - Seveso category P5c FLAMMABLE LIQUIDS
   - Qualifying quantity (tonnes) for the application of lower-tier requirements: 5.000 t
   - Qualifying quantity (tonnes) for the application of upper-tier requirements: 50.000 t
   - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

2. **15.2 Chemical safety assessment:**
   - A Chemical Safety Assessment has not been carried out.

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**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Trade name: AGC Leitsilberlack Verdünner

- Relevant phrases
  H225 Highly flammable liquid and vapour.
  H226 Flammable liquid and vapour.
  H302 Harmful if swallowed.
  H304 May be fatal if swallowed and enters airways.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H319 Causes serious eye irritation.
  H332 Harmful if inhaled.
  H335 May cause respiratory irritation.
  H336 May cause drowsiness or dizziness.
  H411 Toxic to aquatic life with long lasting effects.

- Classification according to Regulation (EC) No 1272/2008
  The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- 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 Harmonised 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)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Flam. Liq. 2: Flammable liquids – Category 2
  Flam. Liq. 3: Flammable liquids – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  Skin Sens. 1: Skin sensitisation – Category 1
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  Asp. Tox. 1: Aspiration hazard – Category 1
  Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
  Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3