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

- **1.1 Product identifier**
  
  **Trade name:** Aurosteel Abdecklack blau

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  
  No further relevant information available.

- **Application of the substance / the mixture**
  
  Masking material
  
  Paint

- **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.
  
  Eye Irrit. 2 H319 Causes serious eye irritation.
  
  STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
  
  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:**

  ethyl acetate
  
  acetone

  **Hazard statements**

  H225 Highly flammable liquid and vapour.
  
  H319 Causes serious eye irritation.
  
  H336 May cause drowsiness or dizziness.

  **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.
  
  P273 Avoid release to the environment.
  
  P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)
Trade name: Aurosteel Abdecklack blau

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P403+P235 Store in a well-ventilated place. Keep cool.

Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.

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>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-78-6</td>
<td>ethyl acetate</td>
<td>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 25-50%</td>
</tr>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 10-25%</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
General information: Immediately remove any clothing soiled by the product.

After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.

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

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Trade name: **Aurosteel Abdecklack blau**

Keep away from ignition sources.
Ensure adequate ventilation

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).
Dispose contaminated material as waste according to item 13.
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.
Fumes can combine with air to form an explosive mixture.

7.2 **Conditions for safe storage, including any incompatibilities**

Storage:
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

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: |
|---------------------------|----------------|
| **CAS:** 141-78-6 ethyl acetate |
| WEL: Short-term value: 400 ppm |
| Long-term value: 200 ppm |

| **CAS:** 67-64-1 acetone |
|---------------------------|----------------|
| WEL: Short-term value: 3620 mg/m³, 1500 ppm |
| Long-term value: 1210 mg/m³, 500 ppm |

Additional information: The lists valid during the making were used as basis.

8.2 **Exposure controls**

Personal protective equipment:

General protective and hygienic measures:
Usual hygienic measures for dental practice and dental laboratories.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

**Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:**

Protective gloves (EN 374)

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Material of gloves**
Butyl rubber, BR

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles (EN 166)

**Body protection:** Protective work clothing

---

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

**General Information**

- **Form:** Fluid
- **Colour:** Blue
- **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:** -20 °C

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** 410 °C

- **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:** 2.1 Vol %
  - **Upper:** 13.0 Vol %
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.01.2019
Version number 1
Revision: 18.01.2019

Trade name: Aurosteel Abdecklack blau

(Contd. of page 4)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapour pressure at 20 °C:</td>
<td>93 mbar</td>
</tr>
<tr>
<td>Density at 20 °C:</td>
<td>0.96 g/cm³</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water:</td>
<td>Partly miscible.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Dynamic: Not determined.</td>
</tr>
<tr>
<td>Kinematic at 20 °C:</td>
<td>60 s (DIN 53211/4)</td>
</tr>
</tbody>
</table>

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 Possibility of hazardous reactions
Reacts with acids, alkalis and oxidising agents.
Exothermic reaction.

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.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>141-78-6 ethyl acetate</td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>5620 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>&gt; 18000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>5800 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>&gt; 15800 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

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:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/96h (fish)</th>
<th>LC50/48h (crustaceans)</th>
<th>EC50/48h (crustaceans)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate</td>
<td>212 mg/l (Min.)</td>
<td>154 mg/l (Min.)</td>
<td>10 mg/l (Min.)</td>
</tr>
<tr>
<td></td>
<td>328 mg/l (Median)</td>
<td>1600 mg/l (Median)</td>
<td>30600 mg/l (Median)</td>
</tr>
<tr>
<td></td>
<td>484 mg/l (Max.)</td>
<td>679 mg/l (Max.)</td>
<td>8450 mg/l (Median)</td>
</tr>
</tbody>
</table>

Acetone:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/96h (fish)</th>
<th>EC50/48h (crustaceans)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11000 mg/l (Max.)</td>
<td>30 mg/l (Min.)</td>
</tr>
<tr>
<td></td>
<td>4350 mg/l (Min.)</td>
<td>8300 mg/l (Median)</td>
</tr>
<tr>
<td></td>
<td>8300 mg/l (Median)</td>
<td>30600 mg/l (Median)</td>
</tr>
</tbody>
</table>

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.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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 | UN1263 |

(Contd. on page 7)
### 14.2 UN proper shipping name
- **ADR/RID/ADN**: 1263 PAINT
- **IMDG, IATA**: PAINT

### 14.3 Transport hazard class(es)
- **ADR/RID/ADN**

  - **Class**: 3 (F1) Flammable liquids.
  - **Label**: 3

- **IMDG, IATA**

  - **Class**: 3 Flammable liquids.
  - **Label**: 3

### 14.4 Packing group
- **ADR/RID/ADN, IMDG, IATA**: II

### 14.5 Environmental hazards:
Not applicable.

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

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

### Transport/Additional information:
- **ADR/RID/ADN**
  - **Limited quantities (LQ)**: 5L
  - **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

- **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

- **UN "Model Regulation"**: UN 1263 PAINT, 3, II
SECTION 15: Regulatory information

- 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

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

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.

- Relevant phrases
  - H225 Highly flammable liquid and vapour.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.

- 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)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3