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

- **1.1 Product identifier**
  - **Trade name:** iBOND Ceramic Primer

- **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:** Kulzer GmbH
    Leipziger Straße 2, 63450 Hanau (Germany)  
    Tel.: +49 (0)800 4372522
  - **Informing department:** E-Mail: msds@kulzer-dental.com
  - **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

**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:** propan-2-ol
  - **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/sparks/open flames/hot surfaces. - No smoking.
    P241 Use explosion-proof electrical/ventilating/lighting/equipment.
    P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
    P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
    P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
    P405 Store locked up.

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

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description:

- Dangerous components:

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Component</th>
<th>CAS:</th>
<th>EINECS:</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>200-661-7</td>
<td>propan-2-ol</td>
<td>67-64-1</td>
<td>200-662-2</td>
<td>acetone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H319; STOT SE 3</td>
<td></td>
<td></td>
<td>H319; STOT SE 3</td>
</tr>
</tbody>
</table>

75-90% propan-2-ol
5-10% acetone

- 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; consult doctor in case of symptoms.

- After skin contact
  The product is not skin irritating.

- After eye contact
  Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- After swallowing
  Rinse out mouth and then drink plenty of water.
  In case of persistent symptoms consult doctor.

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, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

- Protective equipment: No special measures required.

- Additional information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.
Dilute with much water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
Ensure adequate ventilation.

6.4 Reference to other sections

No dangerous materials are released.
See Section 8 for information on personal protection equipment.
### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Keep containers tightly sealed.

**Information about protection against explosions and fires:**
- 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 containers:** Store in cool location.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

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

### SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Component</th>
<th>OES</th>
<th>Short-term value</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>OES</td>
<td>1250 mg/m³, 500 ppm</td>
<td>999 mg/m³, 400 ppm</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>OES</td>
<td>3620 mg/m³, 1500 ppm</td>
<td>1210 mg/m³, 500 ppm</td>
</tr>
</tbody>
</table>

  **New, IOELV**

**DNELs**

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral</th>
<th>derm, l.te, syst.</th>
<th>derm, worker profess., acute, syst.</th>
<th>derm, worker profess., l.te., syst.</th>
<th>Inhalative</th>
<th>derm, worker profess., l.te., syst.</th>
<th>derm, ge.pop., l.te., syst.</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>62 mg/Kg (nd)</td>
<td>2420 mg/Kg/d (nd)</td>
<td>186 mg/Kg/d (nd)</td>
<td>62 mg/Kg/d (nd)</td>
<td>1210 mg/m³ (nd)</td>
<td>200 mg/m³ (nd)</td>
<td></td>
</tr>
</tbody>
</table>

**PNECs**

<table>
<thead>
<tr>
<th>Environment</th>
<th>67-64-1 acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td>freshwater</td>
<td>10.6 mg/l (nd)</td>
</tr>
<tr>
<td>marine water</td>
<td>1.06 mg/l (rabbit)</td>
</tr>
<tr>
<td>STP</td>
<td>19.5 mg/l (nd)</td>
</tr>
<tr>
<td>sedim., dw, fre.wat.</td>
<td>30.4 mg/Kg (nd)</td>
</tr>
<tr>
<td>sedim., dw, mar.wat.</td>
<td>3.04 mg/Kg (nd)</td>
</tr>
<tr>
<td>soil,dw</td>
<td>0.112 mg/Kg (nd)</td>
</tr>
</tbody>
</table>

**Additional information:** The lists that were valid during the compilation were used as basis.
8.2 Exposure controls

- Personal protective equipment
  - General protective and hygienic measures
    Avoid contact with the eyes.
    Keep away from foodstuffs, beverages and food.
    Instantly remove any soiled and impregnated garments.
    Wash hands during breaks and at the end of the work.
    Avoid contact with the eyes and skin.
  - Breathing equipment:
    Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    Check protective gloves prior to each use for their proper condition. recommended
  - Material of gloves
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material
    The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
    Butyl rubber, BR
    Nitrile rubber, NBR
  - Eye protection:
    Protective goggles are recommended.
    Tightly sealed safety glasses.
  - Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Colour: Colourless
      - Smell: Alcohol-like
      - Odour threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Not determined
    - Boiling point/Boiling range: 55 °C
  - Flash point: 5 °C
  - Inflammability (solid, gaseous) Not applicable.
**Trade name:** iBOND Ceramic Primer

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
  No further relevant information available.

- **10.2 Chemical stability**
  - **Conditions to be avoided:** No decomposition if used and stored according to specifications.

- **10.3 Possibility of hazardous reactions**
  No dangerous reactions known

- **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

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

- **11.2 LD/LC50 values that are relevant for classification:**
  **67-63-0 propan-2-ol**
  - Oral LD50 4570 mg/kg (rat)
  - Dermal LD50 13400 mg/kg (rab)
  - Inhalative LC50/4h 30 mg/l (rat)

  **67-64-1 acetone**
  - Oral LD50 5800 mg/kg (rat)
  - Dermal LD50 20000 mg/kg (rabbit)
Trade name: iBOND Ceramic Primer

- Primary irritant effect:
  - 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.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - 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

<table>
<thead>
<tr>
<th>67-63-0 propan-2-ol</th>
<th>67-64-1 acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50/72h &gt;1000 mg/l (algae)</td>
<td>EC50/48h 6100 mg/l (daphnia)</td>
</tr>
<tr>
<td>EC50/48h 13299 mg/l (daphnia)</td>
<td>LC50/96h 1400 mg/l (fish)</td>
</tr>
<tr>
<td>LC50/96h 1400 mg/l (fish)</td>
<td>LC50/96h 5540 mg/l (fish)</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:
    Do not allow undiluted product or large quantities of it to reach ground water, water bodies 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 of together with household garbage. Do not allow product to reach sewage system.

  Waste disposal key number: 55503

  European waste catalogue
  18 01 06 | chemicals consisting of or containing dangerous substances

  Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
Trade name: iBOND Ceramic Primer

- Recommended cleaning agent: Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

- **14.1 UN-Number**
  - ADR, IMDG, IATA
  - UN1993

- **14.2 UN proper shipping name**
  - ADR
    - 1993 FLAMMABLE LIQUID, N.O.S. (vapor pressure at 50 °C at most 110 kPa) (ISOPROPA NOL (ISOPROPYL ALCOHOL), ACETONE)
  - IMDG, IATA
    - FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE)

- **14.3 Transport hazard class(es)**
  - ADR
    - Class
    - Label
    - 3 (F1) Flammable liquids.
  - IMDG, IATA
    - Class
    - Label
    - 3 Flammable liquids.

- **14.4 Packing group**
  - ADR, IMDG, IATA
  - II

- **14.5 Environmental hazards:**
  - Marine pollutant:
  - No

- **14.6 Special precautions for user**
  - Warning: Flammable liquids.
  - Kemler Number:
  - 33
  - EMS Number:
  - F-E-S-E

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

- **Transport/Additional information:**
  - ADR
    - Limited quantities (LQ)
    - Transport category
    - Tunnel restriction code
    - 1L
    - 2
    - D/E

- **UN "Model Regulation":**
  - UN1993, FLAMMABLE LIQUID, N.O.S., 3, II
SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - 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

These data are based on our present knowledge. However, they 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.

- 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)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - 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

- * Data compared to the previous version altered.