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

- **1.1 Product identifier**
  - **Trade name:** ESTENIA C&B ; ADD-ON PRIMER
  - **Article number:** 095-AD
  - **Registration number:** Not applicable

- **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:** Kuraray Europe GmbH
    Philipp-Reis-Str. 4,
    65795 Hattersheim am Main
    Germany
    Phone:+49 (0)69 305 35 840
    Fax:+49 (0)69 305 35 640
    E-mail: dental@kuraray.de
  - **Supplier:** J & S Davis
    5 Whitworth Road, Stevenage,
    Hertfordshir, SG1 4QS
    Great Britain
    Tel: +44- (0) 1438 747344
    Fax: +44- (0)1438 758909
    E-mail: jsdsales@js-davis.co.uk
  - **Further information obtainable from:** Manufacturer or Supplier

- **1.4 Emergency telephone number:**
  - National Poisons information Service (London Centre)
    Guy’s & St. Thomas’ Hospital Trust
    Medical Toxicology Unit
    Avonley Road
    LONDON
    SE14 5ER
    Emergency telephone: (local) 0870 600 6266 or +44 20 7771 5394
    Administrative telephone: +44 20 7 771 53 10
    Facsimile number: +44 20 7 771 53 09

* SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008
    - GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

- **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
      - **Signal word** Danger
      - **Hazard statements**
        - H225 Highly flammable liquid and vapour.

- **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.

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

- **3.1 Chemical characterisation: Substances** None
- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

<table>
<thead>
<tr>
<th>CAS</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>ethanol</td>
<td>&gt; 95%</td>
</tr>
<tr>
<td>2530-85-0</td>
<td>3-trimethoxysilylpropyl methacrylate</td>
<td>&lt; 5%</td>
</tr>
</tbody>
</table>

**Other ingredients:** None

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **After swallowing:**
    - Do not induce vomiting; call for medical help immediately.
    - If symptoms persist 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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.
    - Wear fully protective suit.
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:**
  Dilute with plenty of water.
  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**
  Ensure good ventilation/exhaustion at the workplace.

- **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 (2-25 °C).
  - Information about storage in one common storage facility:
    - Store away from oxidising agents.
    - Store away from reducing agents.
  - Further information about storage conditions:
    - Keep container tightly sealed.
    - Store in cool, dry conditions in well sealed receptacles.
    - 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:**
    - 64-17-5 ethanol
      - WEL Long-term value: 1920 mg/m³, 1000 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:** Wash hands before breaks and at the end of work.
    - **Respiratory protection:** Not required.
  - **Protection of hands:**
    - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - **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.

- **Eye protection:**
  Tightly sealed goggles

### SECTION 9: Physical and chemical properties

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

**General Information**

- **Appearance:**
  - Form: Liquid
  - Colour: Colourless
  - Odour: Alcohol-like

- **pH-value:**
  Not determined

- **Change in condition**
  - Melting point/Melting range: -114.5 °C (ethanol)
  - Boiling point/Boiling range: 78 °C (ethanol)

- **Flash point:**
  13 °C (ethanol)

- **Ignition temperature:**
  425.0 °C (ethanol)

- **Decomposition temperature:**
  Not determined

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

- **Explosion limits:**
  - Lower: 3.5 Vol % (ethanol)
  - Upper: 15.0 Vol % (ethanol)

- **Oxidising properties:**
  Not determined

- **Vapour pressure:**
  59.0 hPa (20 °C, ethanol)

- **Density:**
  1.1 g/cm³

- **Relative density**
  Not determined

- **Vapour density**
  1.6 g/cm³ (ethanol, air=1)

- **Evaporation rate**
  Not determined

- **Solubility in / Miscibility with water:**
  Fully miscible.

- **Partition coefficient (n-octanol/water):**
  -0.32 (ethanol)

- **Viscosity:**
  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

- **Thermal decomposition / conditions to be avoided:**
  No decomposition if used according to specifications.
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>Substance</th>
<th>Oral LD50</th>
<th>Inhalative LC50/4 h</th>
<th>Inhalative LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethanol</td>
<td>3450 mg/kg (mouse)</td>
<td>20000 mg/l (rat)</td>
<td>3600 mg/kg (rat - intraperitoneal)</td>
</tr>
<tr>
<td>2530-85-0 3-trimethoxysilylpropyl methacrylate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>22600 mg/kg (rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>500 mg/kg (rabbit)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, 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 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.

SECTION 12: Ecological information

12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Bioaccumulative potential No further relevant information available.
- 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.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - 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.
SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR, IMDG, IATA: 1170

- **14.2 UN proper shipping name**
  - ADR: 1170 ETHANOL (ETHYL ALCOHOL), mixture
  - IMDG: ETHANOL (ETHYL ALCOHOL), mixture
  - IATA: ETHANOL, mixture

- **14.3 Transport hazard class(es)**
  - ADR, IMDG, IATA

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

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

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

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

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

- **UN "Model Regulation"**: UN1170; ETHANOL (ETHYL ALCOHOL), mixture; 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

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.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.

- **Abbreviations and acronyms**
  - Flam. Liq. 2: Flammable liquids – Category 2
| Skin Irrit. 2: Skin corrosion/irritation – 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.