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

· Product identifier
  · Trade name: HeraCeram opaque liquid
  · Relevant identified uses of the substance or mixture and uses advised against
    No further relevant information available.
    · Application of the substance / the mixture Manufacture of dental prosthesis

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Heraeus Kulzer Australia Pty Ltd
    Unit 32
    11 – 21 Underwood Rd
    HOMEBUSHS NSW 2140
    Australia
    Tel: +61 (0) 2 9764 5222
  · Informing department: see above
  · Emergency telephone number: Emergency contact number: 13 11 26 (24 hours)

2 Hazards identification

· Classification of the substance or mixture
  The product is not classified according to the Globally Harmonised System (GHS).

· Label elements
  · GHS label elements Void
  · Hazard pictograms Void
  · Signal word Void
  · Hazard statements Void

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

3 Composition/information on ingredients

· Chemical characterisation: Mixtures
  · Description:

  · Dangerous components:
    CAS: 64-17-5  ethanol Flam. Liq. 2, H225 0-5%
    EINECS: 200-578-6
  · Additional information For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

· Description of first aid measures
  · General information No special measures required.
  · After skin contact The product is not skin irritating.
  · After eye contact Rinse opened eye for several minutes under running water.

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Safety data sheet
according to 1907/2006/EC, Article 31

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· After swallowing
  Rinse out mouth and then drink plenty of water.
  In case of persistent symptoms consult doctor.
· Information for doctor
  · Most important symptoms and effects, both acute and delayed
    No further relevant information available.
  · Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Firefighting measures

· Extinguishing media
  · Suitable extinguishing agents
    CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
  · Special hazards arising from the substance or mixture
    No further relevant information available.
· Advice for firefighters
  · Protective equipment: No special measures required.
  · Additional information -

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Not required.
· Environmental precautions: Dilute with much water.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
· Reference to other sections
  No dangerous materials are released.
  See Section 8 for information on personal protection equipment.

7 Handling and storage

· Handling
  · Precautions for safe handling
    No special measures required.
  · Information about protection against explosions and fires: No special measures required.
· Conditions for safe storage, including any incompatibilities
  · Storage
    · Requirements to be met by storerooms and containers: No special requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: None.
  · Specific end use(s)
    No further relevant information available.

8 Exposure controls/personal protection

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

(Contd. on page 3)
Trade name: HeraCeram opaque liquid

- **Control parameters**
  - **Components with critical values that require monitoring at the workplace:**
    - **64-17-5 ethanol**
      - NES (Australia) 1880 mg/m³, 1000 ppm
      - PEL (USA) 1900 mg/m³, 1000 ppm
      - REL (USA) 1900 mg/m³, 1000 ppm
      - TLV (USA) 1880 mg/m³, 1000 ppm

- **DNELs**
  - 64-17-5 ethanol
    - Oral ge.pop., l.te, syst. 87 mg/Kg (nd)
    - Dermal worker profess., l.te., syst. 343 mg/Kg/d (nd)
    - Oral ge.pop., acu., local 950 mg/Kg/d (nd)
    - Dermal ge.pop., l.te, syst. 206 mg/Kg/d (nd)
    - Inhalative worker profess., acute, local 1900 mg/m³ (nd)
    - Inhalative worker profess., l.te., syst. 1900 mg/m³ (nd)
    - Inhalative ge.pop., acu., local 950 mg/m³ (nd)
    - Inhalative ge.pop., l.te, syst. 114 mg/m³ (nd)

- **PNECs**
  - 64-17-5 ethanol
    - freshwater 0.96 mg/l (nd)
    - marine water 0.79 mg/l (nd)
    - STP 580 mg/l (nd)
    - sedim., dw, fre.wat. 3.6 mg/Kg (nd)
    - soil,dw 0.63 mg/Kg (nd)

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

- **Exposure controls**
  - **Personal protective equipment**
    - General protective and hygienic measures
      - The usual precautionary measures should be adhered to in handling the chemicals.
    - Breathing equipment: Not required.
    - Protection of hands:
      - 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.
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· 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: not absolutely neccessary
· Body protection: Light weight protective clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: Fluid
      · Colour: Colourless
      · Smell: Characteristic
      · Odour threshold: Not determined.
  · pH-value: Not determined.
  · Change in condition
    · Melting point/Melting range: Not determined
    · Boiling point/Boiling range: 98 °C
  · Flash point: Not applicable
  · Inflammability (solid, gaseous) Not applicable.
  · Ignition temperature:
    · Decomposition temperature: Not determined.
    · Self-inflammability: Product is not selfigniting.
    · Danger of explosion: Product is not explosive.
  · Critical values for explosion:
    · Lower: Not determined.
    · Upper: Not determined.
  · Steam pressure at 20 °C: 23 hPa
  · Density at 20 °C: 0.980 g/cm³
    · Relative density Not determined.
    · Vapour density Not determined.
    · Evaporation rate Not determined.
  · Solubility in / Miscibility with
    · Water: Fully miscible
  · Partition coefficient (n-octanol/water): Not determined.
  · Viscosity:
    · dynamic: Not determined.
    · kinematic: Not determined.
10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Conditions to be avoided**: No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**: None

11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity**
    - **LD/LC50 values that are relevant for classification**:
      - **64-17-5 ethanol**
        - Oral LD50 6200 mg/kg (rat)
        - Inhalative LC50/4 h 95.6 mg/l (rat)
  - **Primary irritant effect**:
    - **Skin corrosion/irritation** No irritant effect.
    - **Serious eye damage/irritation** No irritant effect.
    - **Respiratory or skin sensitisation** No sensitizing effect known.
  - **Additional toxicological information**:
    The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Toxicity**
  - **Aquatic toxicity**: No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems**:
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
  - **PBT**: Not applicable.
  - **vPvB**: Not applicable.
13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation**: Smaller quantities can be disposed with household garbage.

- **Uncleaned packagings**:
  - **Recommendation**: Disposal must be made according to official regulations.
  - **Recommended cleaning agent**: Water, if necessary with cleaning agent.

14 Transport information

- **UN-Number**
  - ADG, ADN, IMDG, IATA: Void

- **UN proper shipping name**
  - ADG, ADN, IMDG, IATA: Void

- **Transport hazard class(es)**
  - ADG, ADN, IMDG, IATA: Void

- **Packing group**
  - ADG, IMDG, IATA: Void

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

- **Special precautions for user**: Not applicable.

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

- **Transport/Additional information**: -

- **UN "Model Regulation"**: Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - GHS label elements: Void
    - Hazard pictograms: Void
    - Signal word: Void
    - Hazard statements: Void

- **National regulations**
  - **Water hazard class**: Generally not hazardous for water.
• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

* **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
  - 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

* Data compared to the previous version altered.