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

- 1.1 Product identifier
  - Trade name: Elektra 10
- 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 Inc.
    175 Pineview Drive, Amherst, N.Y. 14228
    USA
    Tel. +1 800 533 6925
    Fax +1 716 691 2285
  - Further information obtainable from:
    Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein
    Regulatory Affairs
    sds@ivoclarvivadent.com
  - 1.4 Emergency telephone number: +423 / 235 33 13 (Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008
    Ox. Sol. 2 H272 May intensify fire; oxidiser.

- 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
    GHS03
  - Signal word Danger
  - Hazard statements
    H272 May intensify fire; oxidiser.
  - Precautionary statements
    P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
    P221 Take any precaution to avoid mixing with combustibles.
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
    P220 Keep/Store away from clothing/combustible materials.
    P370+/P378 In case of fire: Use for extinction: CO2, powder or water spray.
    P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:
  - Alloys do not require a label, providing they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market.
  - 2.3 Other hazards
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
Trade name: Elektra 10

· vPoB: Not applicable.

*SECTION 3: Composition/information on ingredients*

· 3.2 Chemical characterisation: Mixtures
· Description: Dental alloy

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 7440-22-4</td>
<td>silver</td>
</tr>
<tr>
<td>EINECS: 231-131-3</td>
<td></td>
</tr>
<tr>
<td>EINECS: 231-115-6</td>
<td></td>
</tr>
</tbody>
</table>

· Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures
· General information: No special measures required.
· After inhalation:
  Grinding dust: Supply fresh air; consult doctor in case of complaints.
  In case of unconsciousness place patient stably in side position for transportation.
· After skin contact: After contact with the molten product, cool rapidly with cold water.
· After eye contact:
  Grinding dust: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  Mechanical effects only.
· After swallowing: 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: The product is not flammable.
· 5.2 Special hazards arising from the substance or mixture
No further relevant information available.
· 5.3 Advice for firefighters
· Protective equipment: Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
Not required.
· 6.2 Environmental precautions: No special measures required.
· 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
· 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
Extractors are required on all machines used for thermal processing or splinter removal processes.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
- Requirements to be met by storerooms and receptacles: 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.

SECTION 8: Exposure controls/personal protection

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

8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures: Usual hygienic measures for dental practice.
  - Respiratory protection: Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Protection of hands: Protective gloves should always be worn during mechanical and thermal processing.
    After use of gloves apply skin-cleaning agents and skin cosmetics.
  - Material of gloves:
    Mechanical processing:
    - Leather gloves
    - Strong material gloves
    Thermal processing:
    - Heat protection gloves
  - 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:
    Always wear safety goggles during mechanical processing (grinding, sawing/cutting, drilling, milling).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
- General Information
  - Form: Solid
  - Colour: White
  - Odour: Odourless
  - Odour threshold: Not determined.
  - pH-value: Not applicable.
SECTION 10: Stability and reactivity

- **10.1 Reactivity**: No further relevant information available.
- **10.2 Chemical stability**: Stable under normal handling and storage conditions.
- **Thermal decomposition / conditions to be avoided**: No decomposition if used 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 under normal conditions of storage and use.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - Acute toxicity:
    - **Primary irritant effect**:
      - on the skin: No irritant effect.
      - on the eye: No irritating effect.
    - **Sensitisation**: No sensitising effects known.
Trade name: Elektra 10

Additional toxicological information:
Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

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.
- Additional ecological information:
  - General notes: Generally not hazardous for water
- 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
    Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
- 13.2 European waste catalogue
  - 20 01 40 metals
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  ADR, ADN, IMDG, IATA Void
- 14.2 UN proper shipping name
  ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es)
  ADR, ADN, IMDG, IATA Void
- 14.4 Packing group
  ADR, IMDG, IATA Void
- 14.5 Environmental hazards:
  - Marine pollutant: No
- 14.6 Special precautions for user
  Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  Not applicable.
- Transport/Additional information: Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
**Trade name: Elektra 10**

(Contd. of page 5)

| UN "Model Regulation": | - |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **National regulations:**
  - **Other regulations, limitations and prohibitive regulations**
    - The product is a medical device according to the Directive 93/42/EEC.
  - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

- **Relevant phrases**
  - H252 Self-heating in large quantities; may catch fire.
  - H272 May intensify fire; oxidiser.

- **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)
  - Self-heat. 2: Self-Heating Substances and Mixtures, Hazard Category 2
  - Ox. Sol. 2: Oxidising Solids, Hazard Category 2

- * Data compared to the previous version altered.