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

1.1 Product identifier

Trade name: Laser C&B Yellow

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

Manufacture of dental prothesis

Dental alloy

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 6825

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

The product is not classified according to the CLP regulation.

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 Void

Signal word Void

Hazard statements Void

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.

Safety data sheet available on request.

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: Dental alloy

Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS:</th>
<th>Concentration</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-22-4</td>
<td>231-131-3</td>
<td>silver</td>
<td>substance with a Community workplace exposure limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10-&lt;25%</td>
<td></td>
</tr>
<tr>
<td>7440-50-8</td>
<td>231-159-6</td>
<td>copper</td>
<td>substance with a Community workplace exposure limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3-&lt;10%</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 2)
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.
   If skin irritation continues, consult a doctor.
   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: Use fire extinguishing methods suitable to surrounding conditions.

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.
   Do not allow to enter sewers/surface or ground water.

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.
   Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
   Storage:
   Requirements to be met by storerooms and receptacles: No special requirements.

(Contd. on page 3)
Trade name: Laser C&B Yellow

(Contd. of page 2)

40.1.5

· Information about storage in one common storage facility: Not required.
· Further information about storage conditions: None.
· 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: |
|-----------------------------|----------------|----------------|
| 7440-22-4 silver           | WEL Long-term value: 0.1 mg/m³ |
| 7440-50-8 copper           | WEL Short-term value: 2* mg/m³  |
|                            |                             |
|                            | *fume **dusts and mists (as Cu) |
| 7440-06-4 platinum         | WEL Long-term value: 5 mg/m³   |

· 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.
    Wash hands before breaks and at the end of work.
    Keep away from foodstuffs, beverages and feed.
  · 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
· Appearance:
  · Form: Solid
  · Colour: Grey
  · Odour: Odourless
  · Odour threshold: Not determined.

(Contd. on page 4)
### 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 Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
- **10.4 Possibility of hazardous reactions**: No dangerous reactions known.
- **10.5 Conditions to avoid**: 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**: Mechanical effects only.
  - **Sensitisation**: No sensitising effects known.
- **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:**
    - 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**
    - 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, 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).
- **UN "Model Regulation":** -

(Contd. on page 6)
**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**

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
  - 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)
  - Ox. Sol. 2: Oxidising Solids, Hazard Category 2

* Data compared to the previous version altered.