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

- **1.1 Product identifier**
  - **Trade name:** Aquarius

- **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

- **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.

- **Information concerning particular hazards for human and environment:**
  - 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: Aquarius

40.1.5

· vPvB: Not applicable.

*SECTION 3: Composition/information on ingredients*

· 3.2 Chemical characterisation: Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 7440-06-4</th>
<th>platinum</th>
</tr>
</thead>
</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
· After inhalation: Grinding dust: Supply fresh air; consult doctor in case of complaints.
· 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
· Wear protective equipment. Keep unprotected persons away.
· 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.
· Only adequately trained personnel should handle this product.
· For use in dentistry only.

(Contd. of page 1)

(Contd. on page 3)
40.1.5 · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
    · 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:
    · 7440-06-4 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:
      Wash hands before breaks and at the end of work.
      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
    · Appearance:
      Form: Solid
      Colour: Yellow
    · Odour: Odourless
    · Odour threshold: Not determined.
  · pH-value: Not applicable.

· Change in condition
  · Melting point/Melting range: 1010–1135 °C
Trade name: Aquarius

**Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Contact with combustible material may cause fire.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapour pressure:** Not applicable.
- **Density at 20 °C:** 18.5 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- **Solvent content:**
  - Organic solvents: 0.0 %
  - Solids content: 100.0 %
- **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** 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.
    - **Additional toxicological information:**
      - Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

(Contd. on page 5)
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
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
    Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
  - 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
    - Class 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": I
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.