1 Identification

- **Product identifier**
- **Trade name**: Brite Gold XH
- **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
- **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

  Ivoclar Vivadent Inc.
  1-6600 Dixie Road
  Mississauga, Ontario
  L5T 2Y2
  Canada
  Phone: +1 905 670 8499
  Fax: +1 905 670 3102

  **Information department**: Quality Assurance / Regulatory Affairs
  **Emergency telephone number**:
  24 Hour Emergency Assistance:
  Emergency-Call USA - Infotrac: 1-800-535-5053
  Emergency-Call Canada - Canutec: 1-613-996-6666

  General SDS Assistance:
  US: 1-800-533-6825
  Canada: 1-800-263-8182

2 Hazard(s) identification

- **Classification of the substance or mixture**
  Ox. Sol. 2 H272 May intensify fire; oxidizer.

- **Label elements**
- **GHS label elements**
  The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**

  ![GHS03](image)

- **Signal word** Danger
- **Hazard statements**
  May intensify fire; oxidizer.
- **Precautionary statements**
  Keep away from heat.
  Take any precaution to avoid mixing with combustibles.
  Wear protective gloves / eye protection / face protection.
  Keep/Store away from clothing/combustible materials.

(Contd. on page 2)
In case of fire: Use for extinction: CO2, powder or water spray.
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.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 0
    - Fire = 0
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = 0
    - Fire = 0
    - Reactivity = 0

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

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Dental alloy

- **Dangerous components:**
  - 7440-06-4 platinum 2.5-%

### 4 First-aid measures

- **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.
  - **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 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:** The product is not flammable.
  - **Special hazards arising from the substance or mixture** No further relevant information available.
Trade name: **Brite Gold XH**

- Advice for firefighters
- Protective equipment: Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically.
- 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.

### 7 Handling and storage

- Handling:
  - Precautions for safe handling
    - Extractors are required on all machines used for thermal processing or splinter removal processes.
  - 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 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.

### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-06-4 platinum</td>
<td>Long-term value: 0.002 mg/m³</td>
<td>1* 0.002** mg/m³</td>
<td>1* 0.002** mg/m³</td>
</tr>
<tr>
<td></td>
<td>soluble salts, as Pt</td>
<td>Metal **soluble salts, as Pt</td>
<td>Metal **soluble salts, as Pt</td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.
- Personal protective equipment:
  - General protective and hygienic measures: Usual hygienic measures for dental practice.
  - Breathing equipment: 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 gloves

(Contd. on page 4)
9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 General Information

9.1.1.1 Appearance:
- Form: Solid
- Color: Yellow
- Odor: Odorless
- Odour threshold: Not determined.

9.1.1.2 pH-value: Not applicable.

9.1.1.3 Change in condition
- Melting point/Melting range: 1080–1150 °C (1976–2102 °F)
- Boiling point/Boiling range: Undetermined.

9.1.1.4 Flash point: Not applicable.

9.1.1.5 Flammability (solid, gaseous): Not determined.

9.1.1.6 Auto igniting: Product is not selfigniting.

9.1.1.7 Danger of explosion: Product does not present an explosion hazard.

9.1.1.8 Explosion limits:
- Lower: Not determined.
- Upper: Not determined.

9.1.1.9 Vapor pressure: Not applicable.

9.1.1.10 Density at 20 °C (68 °F): 18.8 g/cm³ (156.886 lbs/gal)
- Relative density: Not determined.
- Vapour density: Not applicable.
- Evaporation rate: Not applicable.

9.1.1.11 Solubility in / Miscibility with
- Water: Insoluble.

9.1.1.12 Partition coefficient (n-octanol/water): Not determined.

9.1.1.13 Viscosity:
- Dynamic: Not applicable.
- Kinematic: Not applicable.

9.1.1.14 Solvent content:
- Solids content: 100 %

9.1.1.15 Other information: No further relevant information available.

10 Stability and reactivity

10.1 Reactivity: No further relevant information available.
### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
    - **Primary irritant effect:**
      - **on the skin:** No irritant effect.
      - **on the eye:** No irritating effect.
    - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**
    - Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.
  - **Carcinogenic categories**
    - **NTP (National Toxicology Program)**: None of the ingredients is listed.
    - **OSHA-Ca (Occupational Safety & Health Administration)**: None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability:** No further relevant information available.
  - **Behavior in environmental systems:**
    - **Bioaccumulative potential:** No further relevant information available.
    - **Mobility in soil:** No further relevant information available.
  - **Additional ecological information:**
    - **General notes:** Generally not hazardous for water
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
  - **Other adverse effects:** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    - Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
  - **Uncleaned packagings**
    - **Recommendation:** Disposal must be made according to official regulations.
Trade name: **Brite Gold XH**

### 14 Transport information

- **UN-Number**
  - DOT: NA3077
  - ADR, ADN, IMDG, IATA: Void

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

- **Transport hazard class(es)**
  - DOT
    - Class: 9 Miscellaneous dangerous substances and articles
    - Label: 9
  - ADR, ADN, IMDG, IATA
    - Class: Void

- **Packing group**
  - DOT
    - Class: III
    - ADR, IMDG, IATA: Void

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

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

- **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"**: -

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

  - **Sara**
    - Section 355 (extremely hazardous substances):
      - None of the ingredients is listed.
  
  - **Section 313 (Specific toxic chemical listings):**
    - 7440-22-4 silver
    - 7440-50-8 copper

  - **TSCA (Toxic Substances Control Act):**
    - 7440-57-5 Gold
    - 7440-22-4 silver
    - 7440-50-8 copper
    - 7440-06-4 platinum
    - 7440-74-6 indium
    - 7439-88-5 iridium

- **Proposition 65**

  - **Chemicals known to cause cancer:**
    - None of the ingredients is listed.
40.1.5

· Chemicals known to cause reproductive toxicity for females:
  None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:
  None of the ingredients is listed.

· Carcinogenic categories

  - EPA (Environmental Protection Agency)
    7440-22-4 silver D
    7440-50-8 copper D

  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.

  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

· GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

  GHS03

· Signal word Danger

· Hazard statements
  May intensify fire; oxidizer.

· Precautionary statements
  Keep away from heat.
  Take any precaution to avoid mixing with combustibles.
  Wear protective gloves / eye protection / face protection.
  Keep/Store away from clothing/combustible materials.
  In case of fire: Use for extinction: CO2, powder or water spray.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Other regulations, limitations and prohibitive regulations
  The product is a medical device according to the Directive 93/42/EEC.
  This product is classified as a medical device under US and Canadian regulations and has been reviewed by
  the US Food and Drug Administration and Health Canada.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Date of preparation / last revision 06/23/2015 / 4

· 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
  DOT: US Department of Transportation
  IATA: International Air Transport Association
**Trade name: Brite Gold XH**

ACGIH: American Conference of Governmental Industrial Hygienists  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
Ox. Sol. 2: Oxidising Solids, Hazard Category 2

* Data compared to the previous version altered.