<table>
<thead>
<tr>
<th>1 Identification of the substance/preparation and of the company/undertaking</th>
</tr>
</thead>
</table>
| - **Product details**  
  - **Trade name:** ZENOSTAR Color Zr Einfärbelösung grey-violet, ivory  
  - **Application of the substance / the preparation** Auxiliary for manufacture of dental prothesis  
  - **Manufacturer/Supplier:**  
    Wieland Dental + Technik GmbH & Co.KG  
    Schwenninger Str. 13  
    75179 Pforzheim  
    Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959  
  - **Further information obtainable from:** Abteilung Umweltschutz  
  - **Information in case of emergency:**  
    +49 (07231)-37050  
    (Be kindly advised that this number can only be contacted at usual office hours.) |

<table>
<thead>
<tr>
<th>2 Hazards identification</th>
</tr>
</thead>
</table>
| - **Hazard description:** Not applicable.  
  - **Information concerning particular hazards for human and environment:** The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
  - **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.  
  - **GHS label elements** Void |

<table>
<thead>
<tr>
<th>3 Composition/information on ingredients</th>
</tr>
</thead>
</table>
| - **Chemical characterization**  
  - **Description:** Mixture of substances listed below with nonhazardous additions.  
  - **Dangerous components** Void  
  - **Additional information:** For the wording of the listed risk phrases refer to section 16. |

<table>
<thead>
<tr>
<th>4 First-aid measures</th>
</tr>
</thead>
</table>
| - **General information:** No special measures required.  
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.  
  - **After skin contact:** Generally the product does not irritate the skin. Rinse with warm water.  
  - **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
  - **After swallowing:** Rinse out mouth and then drink plenty of water. Seek immediate medical advice. |

<table>
<thead>
<tr>
<th>5 Fire-fighting measures</th>
</tr>
</thead>
</table>
| - **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
  - **Protective equipment:** No special measures required. |

<table>
<thead>
<tr>
<th>6 Accidental release measures</th>
</tr>
</thead>
</table>
| - **Person-related safety precautions:** Not required.  
  - **Measures for environmental protection:** No special measures required. |

(Contd. on page 2)
Trade name: ZENOSTAR Color Zr Einfärbelösung grey-violet, ivory

- Measures for cleaning/collecting:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Additional information: No dangerous substances are released.

### 7 Handling and storage

- **Handling:**
  - Information for safe handling: No special measures required.
  - Information about fire - and explosion protection: No special measures required.

- **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.

### 8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    The usual precautionary measures are to be adhered to when handling chemicals.
  - **Respiratory protection:** Not required.
  - **Protection of hands:**
    Protective gloves

- **Material of gloves** Plastic gloves
- **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.
- **Not suitable are gloves made of the following materials:**
  Leather gloves
  Strong material gloves
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form:</strong></td>
</tr>
<tr>
<td><strong>Colour:</strong></td>
</tr>
<tr>
<td><strong>Odour:</strong></td>
</tr>
</tbody>
</table>

- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 100°C

- **Flash point:** Not applicable.
Trade name: ZENOSTAR Color Zr Einfärbelösung grey-violet, ivory

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Self-igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>None</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None</td>
</tr>
<tr>
<td>Density at 20°C</td>
<td>1.01 g/cm³</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water</td>
<td>Fully miscible.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Acetic</td>
</tr>
<tr>
<td>Solvent content</td>
<td>Organic solvents: 0.0 %</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **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:**
  The product is not subject to classification according to the calculation method of the General EU 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 to our experience and the information provided to us.

12 Ecological information

- **General notes:** Generally not hazardous for water

13 Disposal considerations

- **Product:**
  - **Recommendation**
    Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **European waste catalogue**
  06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES
  06 03 00 wastes from the MFSU of salts and their solutions and metallic oxides
  06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

- **Uncleaned packaging:**
  - **Recommendation:** Packaging may be reused or recycled after cleaning.
Trade name: ZENOSTAR Color Zr Einfärbelösung grey-violet, ivory

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- **Land transport ADR/RID (cross-border):** ADR/RID class: -
- **Maritime transport IMDG:** IMDG Class: -
  - Marine pollutant: No
- **Air transport ICAO-TI and IATA-DGR:** ICAO/IATA Class: -
  - UN "Model Regulation": -

### 15 Regulatory information

- **Labelling according to EU guidelines:**
  The product has been marked in accordance with EU Directives / respective national laws.
  Observe the general safety regulations when handling chemicals.
  The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **National regulations:**
- **Waterhazard class:** Generally not hazardous for water.

### 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.

- **Department issuing MSDS:** Abteilung Umweltschutz
- **Contact:** Herr Marcus Müller
- **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)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organization
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals