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

1.1 Product identifier
- Trade name: Technovit 5000 powder

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: Kulzer GmbH
  Leipziger Straße 2, 63450 Hanau (Germany)
  Tel.: +49 (0)6181 9689-2570 (Wehrheim)
- Informing department: email: technik.wehrheim@kulzer-dental.com

1.4 Emergency telephone number:
- Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  Aquatic Acute 1 H400 Very toxic to aquatic life.

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
    - GHS09
      - Signal word: Warning
      - Hazard statements
        H400 Very toxic to aquatic life.
      - Precautionary statements
        P273 Avoid release to the environment.

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:

| CAS: 7440-50-8 | copper | > 90% |
| EINECS: 231-159-6 | Aquatic Acute 1, H400 |

| CAS: 94-36-0 | dibenzoyl peroxide | < 1% |
| Reg.nr.: 01-2119511472-50 |

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SECTION 4: First aid measures

4.1 Description of first aid measures
- General information
  No special measures required.
- After skin contact
  Instantly wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
- After eye contact
  Rinse opened eye for several minutes under running water. Then consult doctor.
- After swallowing
  Rinse out mouth and then drink plenty of water.
  In case of persistent symptoms consult doctor.

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
  CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
- Protective equipment: No special measures required.
- Additional information

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:
Do not allow to enter drainage system, surface or ground water.
Do not allow to enter the ground/soil.

6.3 Methods and material for containment and cleaning up: Collect mechanically.

6.4 Reference to other sections
See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Wear protective equipment. Keep unprotected persons away.

7.2 Conditions for safe storage, including any incompatibilities
- Storage
  - Requirements to be met by storerooms and containers: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Store cool (not above 25 °C).
**Trade name:** Technovit 5000 powder

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
  - Components with critical values that require monitoring at the workplace:
  - **7440-50-8 copper**
    - Short-term value: 2** mg/m³
    - Long-term value: 0.2* 1** mg/m³
  - *fume **dusts and mists (as Cu)
  - **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
  - **Personal protective equipment**
  - **General protective and hygienic measures**
    - The usual precautionary measures should be adhered to in handling the chemicals.
  - **Breathing equipment:**
    - Use a mask with particle filter in case of dust generation.
    - Filter P2.
  - **Protection of hands:**
    - **Material of gloves**
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
    - **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.
    - **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
      - Nitrile rubber, NBR
  - **Eye protection:** Safety glasses
  - **Body protection:** Light weight protective clothing

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:** Powder
    - **Form:** Powder
    - **Colour:** Copper coloured
    - **Smell:** Odourless
    - **Odour threshold:** Not determined.
  - **pH-value:** Not applicable.
  - **Change in condition**
    - **Melting point/Melting range:** 1083 °C
    - **Boiling point/Boiling range:** Not determined
  - **Flash point:** Not applicable
  - **Inflammability (solid, gaseous):** Not determined.
### SECTION 10: Stability and reactivity

- **10.1 Reactivity**: No further relevant information available.
- **10.2 Chemical stability**
  - Conditions to be avoided: No decomposition if used and stored 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

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - Acute toxicity: Based on available data, the classification criteria are not met.
  - Primary irritant effect:
    - Skin corrosion/irritation: Based on available data, the classification criteria are not met.
    - Serious eye damage/irritation: Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
    - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
    - Carcinogenicity: Based on available data, the classification criteria are not met.
    - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.

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**Trade name**: Technovit 5000 powder

- **Ignition temperature**: Not determined.
- **Decomposition temperature**: Not determined.
- **Self-inflammability**: Product is not selfigniting.
- **Danger of explosion**: Product is not explosive.
- **Critical values for explosion**:
  - Lower: Not determined.
  - Upper: Not determined.
- **Steam pressure at 20 °C**: 0 mbar
- **Density at 20 °C**: 8.960 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**: 100.0 %
- **Solids content**: No further relevant information available.
Trade name: Technovit 5000 powder

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· STOT-repeated exposure Based on available data, the classification criteria are not met.
· Aspiration hazard Based on available data, the classification criteria are not met.

*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:
      Avoid transfer into the environment.
      Do not allow product to reach ground water, water bodies or sewage system.
      Danger to drinking water if even small quantities leak into soil.
- 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
    Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.
  - Uncleaned packagings:
    - Recommendation: Packaging can be reused or recycled after cleaning.

*SECTION 14: Transport information*

- 14.1 UN-Number
  - ADR, IMDG, IATA 3077
- 14.2 UN proper shipping name
  - ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)
  - IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)
- 14.3 Transport hazard class(es)
  - ADR
    - Class 9 (M7) Miscellaneous dangerous substances and articles.
### SECTION 15: Regulatory information

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

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H241 Heating may cause a fire or explosion.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H400 Very toxic to aquatic life.

- **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)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Self-react. B: Self-reactive substances and mixtures – Type B
  - Org. Perox. B: Organic peroxides – Type B
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Skin Sens. 1: Skin sensitisation – Category 1

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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

* Data compared to the previous version altered.