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

- **1.1 Product identifier**
  - Trade name: Technovit 4071/5071
- **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
    - Skin Sens. 1 H317 May cause an allergic skin reaction.
- **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**
      - GHS07
        - **Signal word** Warning
        - **Hazard-determining components of labelling:**
          - dibenzoyl peroxide
        - **Hazard statements**
          - H317 May cause an allergic skin reaction.
        - **Precautionary statements**
          - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
          - P272 Contaminated work clothing should not be allowed out of the workplace.
          - P280 Wear protective gloves.
          - P302+P352 IF ON SKIN: Wash with plenty of water.
          - P321 Specific treatment (see on this label).
          - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- **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:** -
Trade name: Technovit 4071/ 5071

- Dangerous components:
  
  | CAS: 94-36-0 | dibenzoyl peroxide |
  | Reg.nr.: 01-2119511472-50 | 0-5% |

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
  
  - After inhalation: Supply fresh air; consult doctor in case of symptoms.
  
  - After skin contact: Instantly rinse with water. 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. Use fire fighting measures that suit the environment.

- 5.2 Special hazards arising from the substance or mixture
  
  Formation of toxic gases is possible during heating or in case of fire.

- 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. Avoid contact with eyes and skin.

- 6.2 Environmental precautions: No special measures required.

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

- 6.4 Reference to other sections
  
  No dangerous materials are released. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

(Contd. on page 3)
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Wear protective equipment. Keep unprotected persons away.
Avoid contact with eyes and skin.
Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: No special measures required.

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: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
- Components with critical 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.

8.2 Exposure controls
- Personal protective equipment
  - General protective and hygienic measures
    Instantly remove any soiled and impregnated garments.
    Wash hands during breaks and at the end of the work.
  - Breathing equipment: Filter P3.
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.
    Check protective gloves prior to each use for their proper condition.
    recommended
  - 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)
· Penetration time of glove material
  The exact breakthrough 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:
  Butyl rubber, BR
  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:
  · Form: Powder
  · Colour: Green
  · Smell: Odourless
  · Odour threshold: Not determined.
  · pH-value: Not determined.
  · Change in condition
  · Melting point/freezing point: Not determined
  · Initial boiling point and boiling range: Not determined
  · Flash point: >250 °C
  · Inflammability (solid, gaseous) Not applicable.
  · Ignition temperature: >400 °C
  · Decomposition temperature: Not determined.
  · Self-inflammability: Product is not selfigniting.
  · Explosive properties: Product is not explosive.
  · Critical values for explosion:
    · Lower: Not determined.
    · Upper: Not determined.
  · Steam pressure: Not determined.
  · Density at 20 °C 1,16156 g/cm³
  · Relative density Not determined.
  · Vapour density Not determined.
  · Evaporation rate Not determined.
  · Solubility in / Miscibility with
    · Water: Not miscible or difficult to mix
  · Partition coefficient: n-octanol/water: Not determined.
  · Viscosity:
    · dynamic: Not determined.
    · kinematic: Not determined.
  · Solvent content:
    · Water: 0,4 %
Trade name: Technovit 4071/ 5071

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
- Additional information:

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity Based on available data, the classification criteria are not met.
  - LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0 dibenzoyl peroxide</td>
<td>5,000 mg/kg (rat)</td>
<td>24,300 mg/l (rat)</td>
</tr>
</tbody>
</table>

- 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 May cause an allergic skin reaction.
- 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.
- 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:

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC50/72h</th>
<th>EC50/48h</th>
<th>LC50/96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0 dibenzoyl peroxide</td>
<td>&gt;2 mg/l (algae)</td>
<td>&gt;2 mg/l (daphnia)</td>
<td>&gt;2 mg/l (fish)</td>
</tr>
</tbody>
</table>

- 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.
- Ecotoxic effects:
  - Remark: Harmful to fish

(Contd. on page 6)
**Safety data sheet**

**according to 1907/2006/EC, Article 31**

**Printing date** 22.10.2018  
**Revision:** 18.10.2018  
**Version number** 4

**Trade name:** Technovit 4071/ 5071

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**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
  - **Recommendation**: Smaller quantities can be disposed with household garbage.

- **Uncleaned packagings**:
  - **Recommendation**: Disposal must be made according to official regulations.

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**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 Marpol and the IBC Code**
  - Not applicable.

- **Transport/Additional information**: 
  - UN "Model Regulation": Void

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**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I**: None of the ingredients is listed.
  - **REGULATION (EC) No 1907/2006 ANNEX XVII**: Conditions of restriction: 3

- **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)
  - DNEL: Derived No-Effect Level (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - 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
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1