1 Identification

- Product identifier
  - Trade name: Optosil Comfort

- Application of the substance / the mixture Dental impression material

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Kulzer GmbH
    Leipziger Straße 2, 63450 Hanau (Germany)
    Tel.: +49 (0)800 4372522

- Information department:
  - Tel. +1 (800) 431-1785  Fax: +1 (800) 522-1545
e-mail: customer.servicehkna@kulzer-dental.com

- Emergency telephone number:
  - Emergency CONTACT (24-Hour-Number)
    GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

- Classification of the substance or mixture
  - The product is not classified according to the Globally Harmonized System (GHS).

- Label elements
  - GHS label elements Void
  - Hazard pictograms Void
  - Signal word Void
  - Hazard statements Void

- Classification system
  - NFPA ratings for USA (scale 0-4)
    - Health = 0
    - Fire = 0
    - Reactivity = 0

  - HMIS-Ratings (Scale 0-4)
    - HEALTH 0
    - FIRE 0
    - REACTIVITY 0

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Description: -

- Dangerous components:
  - 9005-25-8 Starch 25-50%
  - 8042-47-5 Petroleum Asp. Tox. 1, H304 0-5%
**Trade name:** Optosil Comfort

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

### 4 First-aid measures

- **Description of first aid measures**
  - [General information](#) No special measures required.
  - [After inhalation](#) Supply fresh air; consult doctor in case of complaints.
  - [After skin contact](#) Immediately wash with water and soap and rinse thoroughly.
  - [After eye contact](#) Rinse opened eye for several minutes under running water.

- **After swallowing**
  - Rinse out mouth and then drink plenty of water.
  - If symptoms persist consult doctor.

- **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](#) CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

- **Advice for firefighters**
  - [Protective equipment](#): No special measures required.

### 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**
  - No dangerous substances are released.
  - See Section 8 for information on personal protection equipment.

### 7 Handling and storage

- **Handling**
  - [Precautions for safe handling](#) No special measures required.
  - [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.
Trade name: **Optosil Comfort**

- **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**

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9005-25-8 Starch</td>
</tr>
<tr>
<td>PEL (\textsuperscript{*}) 15; 5** mg/m\textsuperscript{3}</td>
</tr>
<tr>
<td>*Total dust **Respirable fraction</td>
</tr>
<tr>
<td>REL (\textsuperscript{*}) 10; 5** mg/m\textsuperscript{3}</td>
</tr>
<tr>
<td>*Total dust **Respirable dust</td>
</tr>
<tr>
<td>TLV (\textsuperscript{*}) 10 mg/m\textsuperscript{3}</td>
</tr>
</tbody>
</table>

- **Additional information**: The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment**
    - **General protective and hygienic measures**: The usual precautionary measures for handling chemicals should be followed.
    - **Breathing equipment**: Not required.
    - **Protection of hands**: Check protective gloves prior to each use for their proper condition.
      - **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.
      - **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.
      - **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**: Not absolutely necessary.
  - **Body protection**: Light weight protective clothing

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance**: Pasty
**Trade name:** Optosil Comfort

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Peppermint</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>undetermined</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>undetermined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto 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></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F)</td>
<td>1.13 g/cm³ (9.43 lbs/gal)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Not miscible or difficult to mix</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content</td>
<td></td>
</tr>
<tr>
<td>Solids content</td>
<td>62.1 %</td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### 10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** none
**Trade name:** Optosil Comfort

**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**
    - LD/LC50 values that are relevant for classification:
      - **8042-47-5 Petroleum**
        - Oral LD50 >5000 mg/kg (rat)
        - Dermal LD50 >2000 mg/kg (rabbit)
      - **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 according to our experience and the information provided to us.
    - **Carcinogenic categories**
      - IARC (International Agency for Research on Cancer)
        - 14807-96-6 Talc (Mg3H2(SiO3)4)
        - None of the ingredients is listed.
      - 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:**
    - **8042-47-5 Petroleum**
      - LC50/96h >100 mg/l (fish)
      - **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:**
          - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
      - **Results of PBT and vPvB assessment**
        - PBT: Not applicable.
        - vPvB: Not applicable.
Safety Data Sheet
acc. to OSHA HCS

Trade name: Optosil Comfort

- Other adverse effects No further relevant information available.

13 Disposal considerations
- Waste treatment methods
  - Recommendation Smaller quantities can be disposed of with household waste.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information
- UN-Number
  - DOT, ADR, ADN, IMDG, IATA Void
- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA Void
- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
    - Class Void
- Packing group
  - DOT, 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: -
- UN "Model Regulation": Void

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.
- Cancerogenity categories
  - TLV (Threshold Limit Value established by ACGIH)
    9005-25-8 Starch A4
    14807-96-6 Talc (Mg3H2(SiO3)4) A4
- GHS label elements Void
  - Hazard pictograms Void
  - Signal word Void

(Contd. of page 5)

(Contd. on page 7)
Trade name: **Optosil Comfort**

- **Hazard statements** Void
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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**
  - H304 May be fatal if swallowed and enters airways.
- **Date of preparation / last revision** 06/03/2017 / 2
- **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
  - 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)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Asp. Tox. 1: Aspiration hazard – Category 1
- * Data compared to the previous version altered.