Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 08/24/2010  Reviewed on 08/23/2010

1 Identification of substance:
   · Product details:
     · Trade name: Charisma
     · Application of the substance / the preparation: Dental filling material
   · Manufacturer/Supplier:
     Heraeus Kulzer GmbH
     Grüner Weg 11, D-63450 Hanau
     Tel.: 0800 4372522
   · Information department:
     Dr. Hoffmann
     Tel.: +49 6081 959-313
     Fax: +49 6081 959-223
     email: marcus.hoffmann@heraeus.com

2 Hazards identification
   · Hazard description: not applicable
   · Information pertaining to particular dangers for man and environment: not applicable
   · Classification system
     The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
     · NFPA ratings for USA (scale 0-4)
       Health = 1
       Fire = 1
       Reactivity = 1
     · HMIS-Ratings (Scale 0-4)
       HEALTH Health = 0
       FIRE Fire = 1
       REACTIVITY Reactivity = 1

3 Composition/Data on components:
   · Chemical characterization
     · Description: Composition based on methacrylates
     · Dangerous components: Void
     · Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures
   · General information: No special measures required.
   · After skin contact: Generally the product does not irritate the skin.
   · After eye contact: Rinse opened eye for several minutes under running water.
   · After swallowing: Induce vomiting and seek advice of physician.

5 Fire fighting measures
   · Suitable extinguishing agents
     CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
     Use fire fighting measures that suit the environment.
   · Protective equipment: No special measures required.

(Contd. on page 2)
**Trade name:** Charisma

- Additional information -

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### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
  Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).
- **Additional information:**
  See Section 13 for disposal information.
  See Section 8 for information on personal protection equipment.

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### 7 Handling and storage

- **Handling**
  - **Information for safe handling:** No special measures required.
  - **Information about protection against explosions and fires:** 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:** Keep cool, if possible (not above 25 °C).

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### 8 Exposure controls and personal protection

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

- **Components 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 that were valid during the creation were used as basis.

- **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:** Not required.
    - **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 in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
      Natural rubber, NR
  - **Eye protection:** Not absolutely necessary.
  - **Body protection:** Light weight protective clothing

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### 9 Physical and chemical properties:

- **General Information**
  - **Form:** Pasty

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(Contd. on page 3)
Trade name: Charisma

- Color: Different according to coloring
- Odor: Odorless

- Change in condition
  - Melting point/Melting range: undetermined
  - Boiling point/Boiling range: undetermined

- Flash point: >130°C (>266°F)
- Auto igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Density: Not determined
- Solubility in / Miscibility with
  - Water: Not miscible or difficult to mix

10 Stability and reactivity

- Dangerous reactions No dangerous reactions known
- Dangerous products of decomposition: none
- Additional information: Product might polymerize after considerable exceeding of recommended storage time or temperature.

11 Toxicological information

- Acute toxicity:
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitization: Sensitizing effect by skin contact is possible with prolonged exposure.
- 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.

12 Ecological information:

- General notes:
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
  - Recommendation
    Small quantities can be polymerized by light 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.
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Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

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**14 Transport information**

- **DOT regulations:**
  - Hazard class: -

- **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: -

- Transport/Additional information: -

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**15 Regulations**

- **SARA Section 355 (extremely hazardous substances):**
  None of the ingredients is listed.

- **SARA Section 313 (specific toxic chemical listings):**
  None of the ingredients is listed.

- **Prop 65 - Chemicals known to cause cancer:**
  None of the ingredients is listed.

- **Cancerogenity categories**
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - IARC (International Agency for Research on Cancer)
    Butyl-hydroxy-toluol 3
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    Butyl-hydroxy-toluol  A4

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

- **OSHA-Ca (Occupational Safety & Health Administration):**
  None of the ingredients is listed.

- **Markings according to EU guidelines:**
  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 (GefStoffV).
  The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.

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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.

- Department issuing MSDS: Safety department
- Contact:
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- * Data compared to the previous version altered.