1 Identification

- Product identifier
  - Trade name: PANAVIA F 2.0 ; PASTE A
- Article number: CA089-PA
- Relevant identified uses of the substance or mixture and uses advised against
  - No further relevant information available.
- Application of the substance / the mixture
  - Resin-based dental adhesive cement

2 Hazard(s) identification

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

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components: Void
- Other ingredients:
  - 10-Methacryloyloxydecyl dihydrogen phosphate
  - Hydrophobic aromatic dimethacrylate
  - Hydrophobic aliphatic dimethacrylate
  - Hydrophilic aliphatic dimethacrylate
  - Silanated silica filler
  - Silanated colloidal silica
  - dl-Camphorquinone
  - Catalysts
  - Initiators

(Contd. on page 2)
4 First-aid measures

- Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - 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: 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: See Section 8.
- 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.

7 Handling and storage

- Handling:
  - Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
  - 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: Store in a refrigerator (2-8°C).
  - Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
  - Keep receptacle tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from heat and direct sunlight.
- 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
- 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.
Trade name: PANAVIA F 2.0 ; PASTE A

- **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**: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection**: Not required.

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance</strong>: Pasty</td>
</tr>
<tr>
<td><strong>Color</strong>: Colored</td>
</tr>
<tr>
<td><strong>Odor</strong>: Odorless</td>
</tr>
<tr>
<td><strong>pH-value</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
</tr>
<tr>
<td><strong>Melting point/Melting range</strong>: Undetermined.</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range</strong>: Undetermined.</td>
</tr>
<tr>
<td><strong>Flash point</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong>: Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong>:</td>
</tr>
<tr>
<td><strong>Lower</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Upper</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Density</strong>: 2.2 g/cm³</td>
</tr>
<tr>
<td><strong>Vapor density</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong></td>
</tr>
<tr>
<td><strong>Water</strong>: Insoluble</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong>: Not applicable.</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
</tr>
<tr>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>
10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- 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: Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
- 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 internally approved calculation methods for preparations:
  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)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- 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: Generally not hazardous for water
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
Trade name: PANAVIA F 2.0 ; PASTE A

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

### 14 Transport information

- **UN-Number**
  - DOT, TDG, ADN, IMDG, IATA: Void

- **UN proper shipping name**
  - DOT, ADN, IMDG, IATA: Void
  - TDG: Void

- **Transport hazard class(es)**
  - DOT, TDG, ADN, IMDG, IATA: Void
  - Class: Void

- **Packing group**
  - DOT, TDG, IMDG, IATA: Void

- **Environmental hazards:**
  - Marine pollutant: No

- **Special precautions for user**
  - Not applicable.

- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
  - Not applicable.

- **UN "Model Regulation"**: Void

### 15 Regulatory information

- **Sara**
  - **Section 355 (extremely hazardous substances):**
    - All ingredients are listed.
  - **Section 313 (Specific toxic chemical listings):**
    - All ingredients are listed.
  - **SARA 311/312**: See Section 2 for the information on physical and health hazards.
  - **TSCA (Toxic Substances Control Act):**
    - All ingredients are listed.

- **Canadian substance listings:**
  - **Canadian Domestic Substances List (DSL)**
    - All ingredients are listed.
  - **Canadian Ingredient Disclosure list (limit 0.1%)**
    - All ingredients are listed.
  - **Canadian Ingredient Disclosure list (limit 1%)**
    - All ingredients are listed.

### 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.

- * Data compared to the previous version altered.