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

- **1.1 Product identifier**
  - **Trade name:** PANAVIA F 2.0 ; OXYGUARD II
  - **Article number:** 089-O
  - **Registration number** Not applicable

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - No further relevant information available.
  - **Application of the substance / the mixture** Dental material for curing promotion and surface protection

- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer:** Kuraray Europe GmbH
    Philipp-Reis-Str. 4,
    65795 Hattersheim am Main
    Germany
    Phone: +49 (0)69 305 35 840
    Fax: +49 (0)69 305 35 640
    E-mail: dental@kuraray.de
  - **Supplier:** J & S Davis
    5 Whitworth Road, Stevenage,
    Hertfordshire, SG1 4QS
    Great Britain
    Tel: +44 (0)1438 747344
    Fax: +44 (0)1438 758909
    E-mail: jsdsales@js-davis.co.uk
  - **Further information obtainable from:** Manufacturer or Supplier
  - **1.4 Emergency telephone number:**
    National Poisons information Service (London Centre)
    Guy’s & St. Thomas’ Hospital Trust
    Medical Toxicology Unit
    Avonley Road
    LONDON
    SE14 5ER
    Emergency telephone: (local) 0870 600 6266 or +44 20 7771 5394
    Administrative telephone: +44 20 7 771 53 10
    Facsimile number: +44 20 7 771 53 09

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    The product is not classified according to the CLP regulation.

- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void

- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

| CAS: 56-81-5 | EINECS: 200-289-5 | glycerol | substance with a Community workplace exposure limit | 50-70% |

- Other ingredients:
  Polyethylene glycol
  Catalysts
  Accelerators
  Dyes

SECTION 4: First aid measures

4.1 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: 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.

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: Use fire extinguishing methods suitable to surrounding conditions.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
See Section 8.

6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling
No special measures required.

Information about fire - and explosion protection:
No special measures required.
SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Compound</th>
<th>WEL Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-81-5 glycerol</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information

Appearance:

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
<th>Odour threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gel</td>
<td>Green</td>
<td>Odourless</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

pH-value: Not determined
Trade name: PANAVIA F 2.0 ; OXYGUARD II

- Change in condition
  - Melting point/Melting range: 18.2 °C (glycerol)
  - Boiling point/Boiling range: 290 °C
- Flash point: 160 °C
- Flammability (solid, gaseous): Not determined
- Ignition temperature: 400 °C
- Decomposition temperature: Not determined
- Self-igniting: Not determined
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: 0.9 Vol %
  - Upper: Not determined
- Oxidising properties: Not determined
- Vapour pressure at 20 °C: 0.1 hPa
- Density:
  - Relative density: Not determined
  - Vapour density: Not determined
  - Evaporation rate: Not determined
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined
- Viscosity:
  - Dynamic: Not determined
  - Kinematic: Not determined
- Solids content: 38.0 %
- 9.2 Other information
  - No further relevant information available.

SECTION 10: Stability and reactivity

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

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.
**Trade name:** PANAVIA F 2.0 ; OXYGUARD II

- **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:** 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:**
    Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - **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** Smaller quantities can be disposed of with household waste.
  - **Uncleaned packaging:**
    - **Recommendation:** Disposal must be made according to official regulations.
    - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 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.
## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  No further relevant information available.

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

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## SECTION 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.**