SAFETY DATA SHEET
according to 91/155/EEC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product details

Trade name: Visco-Gel™ Powder

Application: Temporary Relining

Manufacturer/Supplier:
DENTSPLY DeTrey GmbH
De-Trey-Str. 1
D-78467 Konstanz
Germany

Tel.: + 49-7531-583-0

Emergency information:

Tel.: + 49-7531-583-0

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Description: Polymer

Hazardous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Designation</th>
<th>%</th>
<th>Index</th>
<th>R-phrases</th>
</tr>
</thead>
</table>

Further Ingredients (>10%):

<table>
<thead>
<tr>
<th>CAS</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-42-3</td>
<td>Polyethyl methacrylate</td>
</tr>
</tbody>
</table>

3. HAZARDOUS IDENTIFICATION

Hazard designation: None.

Information pertaining to particular dangers for man and environment: ---


Page 1/6
Trade name: Visco-Gel™ Liquid

10. STABILITY AND REACTIVITY

Conditions to avoid: High temperatures, sources of ignition.

Materials to avoid: ---

Hazardous decomposition products: ---

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Data of relevance for the classification: LD50/LC50-values

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>LC50</td>
<td>7060 mg/kg</td>
<td>rat</td>
</tr>
</tbody>
</table>

Primary effects

- to skin: ---
- to eyes: Direct contact causes irritation.
- to respiratory system: ---
- after swallowing: ---

- Sensitization: Sensitization effects are not known.

11.2 Subacute/chronic toxicity

---

11.3 Further toxicological information

---

12. ECOLOGICAL INFORMATION

Elimination/Persistence/Degradaility: ---

Ecotoxicological effects: ---

General information: ---


supersedes version of: July 23, 1992
SAFETY DATA SHEET
according to 91/155/EEC

Trade name: Visco-Gel™ Liquid

13. DISPOSAL CONSIDERATIONS

13.1 Product Recommendation: Dispose rests into a container for organic halogen free solvent waste. Regard the local official regulations.

13.2 Contaminated Packaings:
Recommendation: Dispose packaging according to local official regulations.

Recommended cleaning agents: ---

14. TRANSPORT INFORMATION

Transport over land ADR/RID and GGVS/GGVE:
ADR/RID-GGVS/E-Class: --- Number/Item: ---
UN-No.: --- Designation: ---

Sea-transport IMDG/GGVSea:
IMDG/GGVSea-Class: --- UN-No.: --- Page: ---
Packaging group: --- Marine pollutant: --- EmS-No.: --- MFAG-No.: ---

Airtransport ICAO-Ti and IATA-DGR:
ICAO/IATA-Class: --- UN/ID-No.: --- Page: ---

15. REGULATORY INFORMATION

Labelling according to the EEC-directive

Symbol and hazard designation of the product: FLAMMABLE

Labelling of dangerous substances: - Ethyl alcohol

R-phrases:
R 10: Flammable

S-phrases:
S 51: Use only in well ventilated areas.

Special labellings: ---

SAFETY DATA SHEET
according to 91/155/EEC

Trade name: Visco-Gel™ Liquid

16. OTHER INFORMATION

The information contained herein is intended for use by persons who have or should obtain professional knowledge and experience in the subjects discussed. The information on this Data Sheet represents our current data and best knowledge as to the proper use and handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet is in the responsibility of the user. The Data Sheet does not give any guarantees on the qualities of the product.
SAFETY DATA SHEET
according to 91/155/EEC

Trade name: Visco-Gel™ Powder

4. FIRST-AID MEASURES

after inhalation: Get to fresh air.
after skin contact: Wash skin with plenty of water and soap.
after eye contact: Immediately rinse opened eye under running water at least for 15 minutes. Seek medical advice.
after swallowing: Drink some water.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Waterfog, foam, dry chemical, carbon dioxide.

Unsuitable extinguishing media: Direct water jet.

Special hazards: In case of fire irritating and toxic gases may occur. Powder dust may form an explosive mixture with air (> 20 g/m³).

Protective equipment: Isolated respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Precautionary measures for man: Spilled material can cause slip hazard.

Precautionary measures for the environment: ---

Steps to be taken in case material is released or spilled: Scoop up and discard into a container. Avoid dusting.

7. HANDLING AND STORAGE

7.1 Handling:

Precautions for safe handling: Product is intended for dental use only. Observe normal care for working with chemicals. Avoid dusting.


supersedes version of: July 23, 1992
Trade name: Visco-Gel™ Powder

7.2 Storage

Recommended storage in stores and containers: Keep container tightly closed. Store in a cool and dry place.

Do not store together with: ---

8. EXPOSURE CONTROLS

8.1 Components with recommended limits for place of work

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Designation</th>
<th>Type</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General limit for dust</td>
<td>OEL</td>
<td>6</td>
<td>mg/m³</td>
</tr>
</tbody>
</table>

Further information: ---

8.2 Personal protective equipment

Work/hygienic practices: Observe normal care for working with chemicals. Avoid dustening.

Respiratory protection: In case of dust: dust mask
Hand protection: Rubber gloves.
Eye protection: Protective goggles.
Skin protection: Protective clothing.

9. Physical and chemical datas:

Appearance: White powder.
Odour: Slight odour of acrylates.
SAFETY DATA SHEET
according to 91/155/EEC

Trade name: Visco-Gel™ Powder

<table>
<thead>
<tr>
<th>Change of state</th>
<th>Value/Range</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point / range:</td>
<td>260</td>
<td>°C</td>
<td>(Decomposition)</td>
</tr>
<tr>
<td>Boiling point / range:</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>304</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Temperature of ignition:</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoflammability:</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive limits</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lel:</td>
<td>&gt; 20</td>
<td>g/m³</td>
<td></td>
</tr>
<tr>
<td>uel:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure (T= °C):</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density (T = °C):</td>
<td>0.71</td>
<td>g/ml</td>
<td></td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>insoluble.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH-value (10% in water):</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

n.a. = not applicable  n.d. = not determined

10. STABILITY AND REACTIVITY

Conditions to avoid: High temperatures (> 210 °C)

Materials to avoid: Strong oxidents, strong acids.

Hazardous decomposition products: Carbon monoxide, Ethyl methacrylate

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Data of relevance for the classification: LD50/LC50-values

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
<th>Species</th>
</tr>
</thead>
</table>

Primary effects

- to skin: ---

- to eyes: Direct contact leads to irritation.

- to respiratory system: Dust may irritate the respiratory system.

- Sensitization: Sensitization effects are not known.

SAFETY DATA SHEET
decording to 91/155/EEC

Trade name: Visco-Gel™ Powder

11.2 Subacute/chronic toxicity

11.3 Further toxicological information

12. ECOLOGICAL INFORMATION

Elimination/Persistence/Degradability: Difficult biodegradation.
Ecotoxicological effects: Not determined.
General information:

13. DISPOSAL CONSIDERATIONS

13.1 Product
Recommendation: Dispose product according to local official regulations.

13.2 Contaminated Packagings:
Recommendation: Dispose packaging according to local official regulations.

Recommended cleaning agents:

14. TRANSPORT INFORMATION

Transport over land ADR/RID and GGVS/GGVE:
ADR/RID-GGVS/E-Class: --- Number/Item: ---
UN-No.: --- Designation: ---

Sea-transport IMDG/GGVSea:
IMDG/GGVSea-Class: --- UN-No.: --- Page: ---
Packaging group: --- Marine pollutant: --- EmS-No.: --- MFAG-No.: ---

Airtransport ICAO-Ti and IATA-DGR:
ICAO/IATA-Class: --- UN/ID-No.: --- Page: ---
Packaging group: ---


Page 5/6
SAFETY DATA SHEET
according to 91/155/EEC

Trade name:  Visco-Gel™ Powder

15. REGULATORY INFORMATION

Labelling according to the EEC-directive

Symbol and hazard designation of the product:  None.

Labelling of dangerous substances:  None.

R-phrases:  ---

S-phrases:  ---

Special labellings:  None.

16. OTHER INFORMATION

The information contained herein is intended for use by persons who have or should obtain professional knowledge and experience in the subjects discussed. The information on this Data Sheet represents our current data and best knowledge as to the proper use and handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet is in the responsibility of the user. The Data Sheet does not give any guarantees on the qualities of the product.
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Emergency information:
Tel.: + 49-7531-583-0

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Description: Solution with ethyl alcohol

Hazardous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Designation</th>
<th>%</th>
<th>Index</th>
<th>R-phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>5-10</td>
<td>F</td>
<td>R 11</td>
</tr>
</tbody>
</table>

Further Ingredients (>10%):

<table>
<thead>
<tr>
<th>CAS</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Glycol ester</td>
</tr>
</tbody>
</table>

3. HAZARDOUS IDENTIFICATION

Hazard designation: FLAMMABLE

Information pertaining to particular dangers for man and environment:
R 10: Flammable

supersedes version of: July 23, 1992
Page 1/6
Trade name: Visco-Gel™ Liquid

4. FIRST-AID MEASURES

after inhalation: Get to fresh air, take respirator.

after skin contact: Take off contaminated clothing. Wash immediately the skin with plenty of water and soap. Afterwards use a skin cream containing grease.

after eye contact: Immediately rinse opened eye under running water at least for 15 minutes. Seek medical advice.

after swallowing: Drink some water.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Waterfog, foam, dry chemical, carbon dioxide.

Unsuitable extinguishing media: Direct water jet.

Special hazards: —

Protective equipment: —

6. ACCIDENTAL RELEASE MEASURES

Precautionary measures for man: —

Precautionary measures for the environment: —

Steps to be taken in case material is released or spilled: Absorb with a solvent absorbing material. Afterwards clean with water.

7. HANDLING AND STORAGE

7.1 Handling:

Precautions for safe handling: Product is intended for dental use only. Keep away from all sources of ignition.

7.2 Storage

Recommended storage in stores and containers: Keep container tightly closed. Store in a cool and well ventilated place.

Do not store together with: —
8. EXPOSURE CONTROLS

8.1 Components with recommended limits for place of work

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Designation</th>
<th>%</th>
<th>Type</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>5-10</td>
<td>MAK</td>
<td>1000</td>
<td>ml/m³</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>5-10</td>
<td>MAK</td>
<td>1900</td>
<td>mg/m³</td>
</tr>
</tbody>
</table>

Further information: ---

8.2 Personal protective equipment

Work/hygienic practices:
Observe normal care for working with chemicals. Use protective skin cream.
Keep product away from sources of ignition.

Respiratory protection: ---

Hand protection: Solvent proofed gloves.

Eye protection: Protective goggles.

Skin protection: Protective clothing.

9. Physical and chemical datas:

Appearance: Clear, colourless liquid.

Odour: Slight odour of alcohol.

<table>
<thead>
<tr>
<th>Change of state</th>
<th>Value/Range *)</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Melting point / range:</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Boiling point / range:</td>
<td>n.d.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>24</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Temperature of ignition:</td>
<td>n.d.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoflammability:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Explosive limits:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- IEL:</td>
<td>n.d.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-UEL:</td>
<td>n.d.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure (T= 20°C):</td>
<td>n.d.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density (T = 20°C):</td>
<td>1.06</td>
<td>g/ml</td>
<td></td>
</tr>
<tr>
<td>Solubility:</td>
<td>in organic solvents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH-value:</td>
<td>n.a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n.a. = not applicable</td>
<td>n.d. = not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>