

# TOKUYAMA DENTAL CORPORATION

## MATERIAL SAFETY DATA SHEET

(According to 91/155/EEC and OSHA regulation 29 CFR 1910.1200(g))

Reviewed on February 01, 2006

### 1. Identification of substance

|  |  |
|--|--|
| Product name                                   | SOFRELINER TOUGH PASTE   |
| Description of product                         | Silicone-based soft denture liner,<br>For dental professionals only.   |
| Manufacturer                                   | <b>Tokuyama Dental Corporation</b><br>38-9, Taitou 1-chome, Taitou-ku,<br>Tokyo, Japan                                 |
| EC representative<br>(Emergency Contact in EU) | <b>Tokuyama Europe GmbH</b><br>Oststrasse 10, 40211 Düsseldorf, Germany<br>TEL: +49 211 1754480<br>FAX: +49 211 357379 |
| North America                                  | <b>Tokuyama America, Inc.</b><br>California<br>TEL: (650) 571 8872<br>TEL: (877) 378 3548 (Dental Toll-Free)           |

### 2. Composition/Data on components

| Ingredients        | %  | Cas.No.     | Symbols | R-phrases | OSHA PEL            |
|--------------------|----|-------------|---------|-----------|---------------------|
| Polyorganosiloxane | 80 | —           | —       | —         | N/E                 |
| Silica, amorphous  | 20 | 112945-52-5 | —       | —         | 80mg/m <sup>3</sup> |

### 3. Hazard identification

Repeated prolonged contact may cause skin inflammation.

### 4. First aid measures

|                    |  |
|--------------------|--|
| After skin contact | Wash with soap and plenty of water.                              |
| After eye contact  | Wash immediately with plenty of water.<br>Get medical attention. |
| After swallowing   | Induce vomiting immediately. Get medical attention.              |

### 5. Fire fighting measures

|   |   |
|---|---|
| Suitable extinguishing media            | Chemical foam, carbon dioxide or dry chemical.                    |
| Media not to be used                    | None.   |
| Combustion products and resulting gases | Irritant gas may be released during heating or in case of fire.   |
| Special precaution for firefighters     | Use protective clothing and a self-contained breathing apparatus. |

### 6. Accidental release measures

|                          |                                   |
|--------------------------|-----------------------------------|
| Personal protection      | Not required.                     |
| Environmental protection | Not required.                     |
| Methods for cleaning up  | Clean up with an inert absorbent. |

### 7. Handling and storage

|          |                                       |
|----------|---------------------------------------|
| Handling | Use in a well ventilated place.       |
| Storage  | Store in a cool, dark place (0-25°C). |

### 8. Exposure controls/personal protection

|                        |                                    |
|------------------------|------------------------------------|
| In general             | Not required.                      |
| Respiration protection | Not required.                      |
| Hand protection        | Wear suitable protective gloves.   |
| Eye protection         | Wear suitable protective glasses.  |
| Skin protection        | Wear suitable protective clothing. |

### 9. Physical and chemical properties

|                  |                        |                       |      |
|------------------|------------------------|-----------------------|------|
| Appearance       | Clear paste, Pink tint | Explosive properties  | N/A  |
| Odor             | None                   | Oxidizing properties  | None |
| pH               | Neutral                | Vapor pressure        | N/A  |
| Boiling point    | None                   | Relative density      | 1.1  |
| Melting point    | N/A                    | Solubility (Water)    | N/A  |
| Flash point      | N/A                    | Solubility (Solvent)  | N/A  |
| Flammability     | None                   | Partition coefficient | N/A  |
| Autoflammability | N/A                    | Others                | —    |

### 10. Stability and reactivity

|                     |   |
|---------------------|---|
| Conditions to avoid | Heat, sparks and open flames.   |
| Materials to avoid  | Strong oxidizing agents, acids, alkalis and alcohols.   |
| Hazardous reactions | Evolves hydrogen on contact with acids, alkalis or alcohols.<br>Incomplete thermal decomposition may cause toxic gases. |

### 11. Toxicological information

|                 |   |
|-----------------|---|
| Inhalation      | —   |
| ingestion       | No irritating effect.                                   |
| Skin contact    | Repeated prolonged contact may cause skin inflammation. |
| Eye contact     | Irritation, redness, pain.                              |
| Carcinogenicity | N/R   |
| Others          | —   |

### 12. Ecological information

|                  |     |
|------------------|-----|
| Biodegradability | N/A |
| Bioaccumulative  | N/A |
| Aquatic toxicity | N/A |
| Others           | —   |

### 13. Disposal consideration

Disposal must be made according to federal, state and local regulations.

### 14. Transport information

|                      |                              |
|----------------------|------------------------------|
| Proper shipping name | Not subject to this section. |
| UN number            |                              |
| Classification       |                              |
| Packing group        |                              |
| Air transport        |                              |
| Sea transport        |                              |
| Inland transport     |                              |

### 15. Regulatory information

|                                     |                                |
|-------------------------------------|--------------------------------|
| Marking according to EU regulations | Not subject to the 67/548/EEC. |
| Contains                            |                                |
| Symbols                             |                                |
| R-phrases                           |                                |
| S-phrases                           |                                |
| Others                              |                                |

### 16. Other information

The information which is contained in this document is based on available data. However, as such has been obtained from various sources, including independent laboratories, it is given without warranty or representation that is complete, accurate and can be relied upon. Tokuyama Dental Corp. has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.

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## MATERIAL SAFETY DATA SHEET

(According to 91/155/EEC and OSHA regulation 29 CFR 1910.1200(g))

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### 1. Identification of substance

|  |   |
|--|---|
| Product name                                   | SOFRELINER TOUGH PRIMER   |
| Description of product                         | Silicone-based soft denture liner,<br>For dental professionals only.  |
| Manufacturer                                   | <b>Tokuyama Dental Corporation</b><br>38-9, Taitou 1-chome, Taitou-ku,<br>Tokyo, Japan                                    |
| EC representative<br>(Emergency Contact in EU) | <b>Tokuyama Europe GmbH</b><br>Oststrasse 10, 40211 Düsseldorf,<br>Germany<br>TEL: +49 211 1754480<br>FAX: +49 211 357379 |
| North America                                  | <b>Tokuyama America, Inc.</b><br>California<br>TEL: (650) 571 8872<br>TEL: (877) 378 3548 (Dental Toll-Free)              |

### 2. Composition/Data on components

| Ingredients                                       | %     | Cas.No.  | Symbols | R-phrases | OSHA PEL              |
|---|-------|----------|---------|-----------|-----------------------|
| Ethyl acetate                                     | 94-98 | 141-78-6 | F       | R:11      | 1400mg/m <sup>3</sup> |
| Polymethylmethacrylate<br>with polyorganosiloxane | 1-3   | —        | —       | —         | N/E                   |
| Polyethylmethacrylate                             | 1-3   | —        | —       | —         | N/E                   |

### 3. Hazard identification

Highly flammable.  
Repeated prolonged contact may cause skin inflammation.

### 4. First aid measures

|                    |  |
|--------------------|--|
| After skin contact | Wash with soap and plenty of water.                              |
| After eye contact  | Wash immediately with plenty of water.<br>Get medical attention. |
| After swallowing   | Induce drinking 250mL of water and get<br>medical attention.     |

### 5. Fire fighting measures

|   |   |
|---|---|
| Suitable extinguishing media            | Chemical foam, carbon dioxide or dry chemical.                    |
| Media not to be used                    | None.   |
| Combustion products and resulting gases | Irritant gas may be released during heating or in case of fire.   |
| Special precaution for firefighters     | Use protective clothing and a self-contained breathing apparatus. |

### 6. Accidental release measures

|                          |  |
|--------------------------|--|
| Personal protection      | Wear protective apparatus.   |
| Environmental protection | Do not empty into drains.  |
| Methods for cleaning up  | Clean up with an inert absorbent and dispose of at special waste collection point. |

### 7. Handling and storage

|          |                                       |
|----------|---------------------------------------|
| Handling | Use in a well ventilated place.       |
| Storage  | Store in a cool, dark place (0-25°C). |

### 8. Exposure controls/personal protection

|                        |                                    |
|------------------------|------------------------------------|
| In general             | Not required.                      |
| Respiration protection | Not required.                      |
| Hand protection        | Wear suitable protective gloves.   |
| Eye protection         | Wear suitable protective glasses.  |
| Skin protection        | Wear suitable protective clothing. |

### 9. Physical and chemical properties

|                  |                     |                       |         |
|------------------|---------------------|-----------------------|---------|
| Appearance       | Clear liquid        | Explosive properties  | 2-11.5% |
| Odor             | Characteristic odor | Oxidizing properties  | N/A     |
| pH               | N/A                 | Vapor pressure        | N/A     |
| Boiling point    | 77°C                | Relative density      | N/A     |
| Melting point    | N/A                 | Solubility (Water)    | N/A     |
| Flash point      | -4°C                | Solubility (Solvent)  | N/A     |
| Flammability     | Highly flammable    | Partition coefficient | N/A     |
| Autoflammability | 427°C               | Others                | —       |

### 10. Stability and reactivity

|                     |   |
|---------------------|---|
| Conditions to avoid | Heat, sparks and open flames.                           |
| Materials to avoid  | Strong oxidizing agents.                                |
| Hazardous reactions | Incomplete thermal decomposition may cause toxic gases. |

### 11. Toxicological information

|                 |   |
|-----------------|---|
| Inhalation      | Irritation of respiratory organs.   |
| ingestion       | Slight irritation of digestive organs.  |
| Skin contact    | Slight irritation, defatting action, repeated prolonged contact may cause inflammation. |
| Eye contact     | Irritation, Redness, Pain.  |
| Carcinogenicity | N/R   |
| Others          | —   |

### 12. Ecological information

|                  |     |
|------------------|-----|
| Biodegradability | N/A |
| Bioaccumulative  | N/A |
| Aquatic toxicity | N/A |
| Others           | —   |

### 13. Disposal consideration

Disposal must be made according to federal, state and local regulations.

### 14. Transport information

|                      |   |
|----------------------|---|
| Proper shipping name | Adhesives, containing a flammable liquid. |
| UN number            | UN1133                                    |
| Classification       | 3 (IATA,CFR49)                            |
| Packing group        | II (IATA,CFR49)                           |
| Air transport        | Highly flammable.<br>See section 2and9.   |
| Sea transport        |   |
| Inland transport     |   |

### 15. Regulatory information

|                                     |   |
|-------------------------------------|---|
| Marking according to EU regulations | 62/548/EEC, 92/32/EEC   |
| Contains                            | Ethyl acetate   |
| Symbols                             | F: Flammable.   |
| R-phrases                           | R11: Highly flammable.  |
| S-phrases                           | S16: Keep away from sources of ignition -No smoking.<br>S23: Do not breathe vapor.<br>S29: Do not empty into drains.<br>S33: Take precautionary measures against static discharges. |
| Others                              | R and S-phrases are not marked according to contents not more than 125mL and the case not related to the general public(Article"Labeling"-3).                                       |

### 16. Other information

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