

TOKUYAMA DENTAL CORPORATION**MATERIAL SAFETY DATA SHEET**

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

1. Identification of substance

Product name	TOKUYAMA REBASE II POWDER
Description of product	Denture relining material, for dental professionals only.
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou1-chome, Taitou-ku, Tokyo, Japan
EC representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Düsseldorf, Germany TEL: + 49 211 1754480 FAX: + 49 211 357379
North America	Tokuyama America, Inc. California Tel: (650) 571 8872 Tel: (877) 378 3548 (Dental Toll-Free)

2. Composition/Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Polyethyl methacrylate	99	—	—	—	N/E
Benzoyl peroxide	Trace	94-36-0	E,Xi	R:2-7-36-43	5mg/m ³

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. 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°C-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	Powder, pink tint	Explosive properties	N/A
Odor	None	Oxidizing properties	N/A
pH	N/A	Vapor pressure	N/A
Boiling point	None	Relative density	N/A
Melting point	N/A	Solubility (Water)	None
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.
Hazardous reactions	Incomplete thermal decomposition may cause toxic gases.

11. Toxicological information

Inhalation	No irritating effect.
Ingestion	—
Skin contact	Repeated prolonged contact may cause inflammation.
Eye contact	Slight irritation.
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 Corporation has not attempted to conceal in any way the deleterious aspects of the product listed herein, but makes no warranty as to such.

* N/E: Not Established, N/A: Not Available, N/R: Not Regulated by IARC

Reviewed on February 01.2006

TOKUYAMA DENTAL CORPORATION**MATERIAL SAFETY DATA SHEET**

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

1. Identification of substance

Product name	TOKUYAMA REBASE II LIQUID
Description of product	Denture relining material, for dental professionals only.
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Düsseldorf, Germany TEL: + 49 211 1754480 FAX: + 49 211 357379
North America	Tokuyama America, Inc. California Tel: (650) 571 8872 Tel: (877) 378 3548 (Dental Toll-Free)

2. Composition/Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
2- (Acetoacetoxy) ethyl methacrylate	59	21282-97-3	—	—	N/E
1,9-Nonanediol dimethacrylate	39	65833-30-9	—	—	N/E

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. 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°C-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	N/A
Odor	Characteristic odor	Oxidizing properties	N/A
pH	N/A	Vapor pressure	N/A
Boiling point	N/A	Relative density	N/A
Melting point	N/A	Solubility (Water)	N/A
Flash point	178°C	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.
Hazardous reactions	Incomplete thermal decomposition may cause toxic gases.

11. Toxicological information

Inhalation	No irritating effect.
Ingestion	—
Skin contact	Repeated prolonged contact may cause inflammation.
Eye contact	Slight irritation.
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

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TOKUYAMA DENTAL CORPORATION**MATERIAL SAFETY DATA SHEET**

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

1. Identification of substance

Product name	TOKUYAMA REBASE II ADHESIVE
Description of product	Denture relining material, for dental professionals only.
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Düsseldorf, Germany TEL: +49 211 1754480 FAX: +49 211 357379
North America	Tokuyama America, Inc. California Tel: (650) 571 8872 Tel: (877) 378 3548 (Dental Toll-Free)

2. Composition/Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Ethyl acetate	47	141-78-6	F	R:11	1400mg/m ³
Acetone	47	67-64-1	F	R:11	2400mg/m ³

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. Get medical attention.
After swallowing	Induce drinking plenty of water and 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	Do not empty into drains.
Methods for cleaning up	Clean up with an inert absorbent and dispose of it at special waste collection point.

7. Handling and storage

Handling	Use in a well ventilated place.
Storage	Store in a cool, dark place (0°C-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	N/A
Odor	Characteristic odor	Oxidizing properties	N/A
pH	N/A	Vapor pressure	N/A
Boiling point	57°C	Relative density	N/A
Melting point	N/A	Solubility (Water)	N/A
Flash point	-14°C	Solubility (Solvent)	N/A
Flammability	Highly flammable	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.
Hazardous reactions	Incomplete thermal decomposition may cause toxic gases.

11. Toxicological information

Inhalation	Irritation of respiratory organs.
Ingestion	Slight irritation of digesting 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.
Sea transport	See section 2 and 9.
Inland transport	

15. Regulatory information

Marking according to EU regulations	62/548/EEC, 92/32/EEC
Contains	Ethyl acetate, Acetone
Symbols	F: Flammable.
R-phrases	R11: Highly flammable.
S-phrases	S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition-No smoking. S23: Do not breathe vapor. S29: Do not empty into drains. 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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TOKUYAMA DENTAL CORPORATION**MATERIAL SAFETY DATA SHEET**

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

1. Identification of substance

Product name	TOKUSO RESIN HARDENER-II
Description of product	Denture relining material, for dental professionals only.
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan
EC representative (Emergency Contact in EU)	Tokuyama Europe GmbH Oststrasse 10, 40211 Düsseldorf, Germany TEL: +49 211 1754480 FAX: +49 211 357379
North America	Tokuyama America, Inc. California Tel: (650) 571 8872 Tel: (877) 378 3548 (Dental Toll-Free)

2. Composition/Data on components

Ingredients	%	Cas.No.	Symbols	R-phrases	OSHA PEL
Sodium Sulfite	10-30	7757-83-7	—	—	N/E
Sodium Bicarbonate	70-90	144-55-8	—	—	N/E

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. 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°C-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	Powder	Explosive properties	None
Odor	None	Oxidizing properties	Reducing agent
pH	10 (solution)	Vapor pressure	N/A
Boiling point	None	Relative density	N/A
Melting point	N/A	Solubility (Water)	Miscible
Flash point	N/A	Solubility (Solvent)	N/A
Flammability	None	Partition coefficient	N/A
Autoflammability	None	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	—
Ingestion	Slight irritation of digesting organs.
Skin contact	Slight irritation, repeated prolonged contact may cause inflammation.
Eye contact	Slight irritation.
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	

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