

TOKUYAMA DENTAL CORPORATION

MATERIAL SAFETY DATA SHEET

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

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

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 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	
UN number	
Classification	
Packing group	Not subject to this section.
Air transport	
Sea transport	
Inland transport	

15. Regulatory information

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

16. Other information

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

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	
UN number	
Classification	
Packing group	Not subject to this section.
Air transport	
Sea transport	
Inland transport	

15. Regulatory information

Marking according to EU regulations	
Contains	
Symbols	Not subject to the 67/548/EEC.
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, 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
Ethyl acetate	47	141-78-6	F	R:11
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			
Odor	Characteristic odor			
pH	N/A			
Boiling point	57°C			
Melting point	N/A			
Flash point	-14°C			
Flammability	Highly flammable			
Autoflammability	N/A			
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.			
Eye contact	Slight irritation, repeated prolonged contact may cause inflammation.			
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	Denture relining material, for dental professionals only.			
UN number	38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan			
Classification	Tokuyama Dental Corporation			
Packing group	38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan			
Air transport	Tokuyama Europe GmbH			
Sea transport	Oststrasse 10, 40211 Düsseldorf, Germany			
Inland transport	TEL: +49 211 1754480 FAX: +49 211 357379			
Marking according to EU regulations	Tokuyama America, Inc. California Tel: (650) 571 8872 Tel: (877) 378 3548 (Dental Toll-Free)			
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).			

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 (ATA, CFR49)
Packing group	II (ATA, 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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Reviewed on February 01 2006

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
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	—

16. Other information

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