Revision Date 08/28/2017
Revision 3

SAFETY DATA SHEET
TOKUYAMA REBASE II Liquid

1. IDENTIFICATION

Product Name	TOKUYAMA REBASE II Liquid
Identified uses	Denture Liner, a component of kit. For dental professionals only.
Supplier	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
Contact Person	http://www.tokuyama-dental.com/tdc/contact.html
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
Emergency Telephone	California Poison Control System - San Francisco Division San Francisco General Hospital Bldg 5 Rm 2A21, 1001 Potrero Ave, San Francisco Emergency telephone number: 1 800 222 1222 E-mail address: coadmin@calpoison.org http://www.calpoison.org National Capital Poison Center 3201 New Mexico Ave, Ste 310, Washington DC Emergency telephone number: 1 800 222 1222 Telephone number: +1 202 362 3867 Facsimile numer: +1 202 362 8377 E-mail address: pc@poison.org http://www.poison.org

2. HAZARD(S) IDENTIFICATION

Appearance	Clear liquid	
Color	Yellow	
Odor	Characteristic	
GHS Pictogram		
Signal Word	Warning	
Hazard Statements		
	H317	May cause an allergic skin reaction.
Precautionary Statements		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.
	P363	Wash contaminated clothing before reuse.
	P501	Dispose of contents/container in accordance with local regulations.
Contains	MEQUINOL	

TOKUYAMA REBASE II Liquid

GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Skin Sens. 1 - H317
Environment	Not classified.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

General Information

Prolonged skin contact may cause redness and irritation. May cause sensitization by skin contact. May cause minor irritation on eye contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ACETOACETOXYETHYL METHACRYLATE		30-60%
CAS No.: 21282-97-3	EC No.: 244-311-1	
GHS Classification Not classified.		

MEQUINOL		<1%
CAS No.: 150-76-5	EC No.: 205-769-8	
GHS Classification Acute Tox. 4 - H302; Eye Irrit. 2 - H319; Skin Sens. 1 - H317		

NONAMETHYLENDIOL DIMETHACRYLATE		30-60%
CAS No.: 65833-30-9	EC No.:	
GHS Classification Not classified.		

4. FIRST-AID MEASURES

Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Try to induce vomiting. Get medical attention.

Skin Contact

Wash the skin immediately with soap and water.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

Not Irritating.

Skin Contact

Prolonged skin contact may cause redness and irritation. May cause sensitization by skin contact.

TOKUYAMA REBASE II Liquid

Eye Contact

Slightly irritating.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

Treat Symptomatically. Wear suitable protective clothing.

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Flash point (°C) 178°C

Extinguishing Media

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

Specific Hazards

When heated and in case of fire, irritating vapors/gases may be formed.

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

All handling to take place in well-ventilated area.

Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight, sparks and open flames.

Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
MEQUINOL	ACGIH		5 mg/m3			

ACGIH=American Conference of Governmental Industrial Hygienists.

Ingredient Comments

OSHA PELs : No exposure limits noted for ingredient(s).

Protective Equipment

TOKUYAMA REBASE II Liquid

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

In case of inadequate ventilation use suitable respirator.

Hand Protection

Wear protective gloves.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Color	Yellow
Odor	Characteristic
Solubility	No information available.

Initial boiling point and boiling range

Not available.

Melting point (°C)

Not available.

Relative density

Not available.

Vapor density (air=1)

Not available.

Vapor pressure

Not available.

Evaporation rate

Not available.

pH-Value, Conc. Solution

Not available.

pH-Value, Diluted Solution

Not available.

Viscosity

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point 178°C

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Partition Coefficient
(N-Octanol/Water)
Not available.
Explosive properties
Not available.
Other Flammability
Not available.
Oxidising properties
Not available.

10. STABILITY AND REACTIVITY

Reactivity
May polymerise.
Stability
Stable under normal temperature conditions and recommended use.
Hazardous reactions:
Not available.
Conditions To Avoid
Keep away from heat, sparks and open flame. Protect against direct sunlight.
Materials To Avoid
Strong oxidizing agents.
Hazardous Decomposition Products
Toxic gases are generated when heated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
Not available.

Skin Corrosion/Irritation:
Prolonged and frequent contact may cause redness and irritation.

Serious eye damage/irritation:
Slightly Irritating.

Respiratory or skin sensitisation:
Respiratory sensitisation
Not available.
Skin sensitisation
May cause sensitisation by skin contact.

Germ cell mutagenicity:
Not available.

Carcinogenicity:
Not established : IARC, NTP, EU, OSHA, ACGIH

Reproductive Toxicity:
Not available.

Specific target organ toxicity - single exposure:
STOT - Single exposure
Not available.

Specific target organ toxicity - repeated exposure:
STOT - Repeated exposure
Not available.

TOKUYAMA REBASE II Liquid

Aspiration hazard:

Viscosity

Not available.

12. ECOLOGICAL INFORMATION

Toxicity

No data available.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

Mobility:

No information available.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

General	Not regulated.
UN No. (DOT/TDG)	N/A
UN No. (IMDG)	N/A
UN No. (ICAO)	N/A
DOT Proper Shipping Name	Not applicable.

DOT Hazard Class

No classification noted.

DOT Hazard Label

No DOT label requirement noted

IMDG Class	Not applicable.
ICAO Class	Not applicable.
Transport Labels	
	No transport warning sign required.
DOT Pack Group	Not applicable.
IMDG Pack Group	Not applicable.
Air Pack Group	Not applicable.

Environmentally Hazardous Substance/Marine Pollutant

No.

Special precautions for user	Not available.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

This Product is Hazardous under the OSHA Hazard Communication Standard.

TOKUYAMA REBASE II Liquid

Regulatory References

29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

SARA (311/312) Hazard Categories

Acute

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

MEQUINOL

Rhode Island "Right To Know" List

The following ingredients are listed.

MEQUINOL

Minnesota "Right To Know" List

The following ingredients are listed.

MEQUINOL

New Jersey "Right To Know" List

The following ingredients are listed.

MEQUINOL

Pennsylvania "Right To Know" List

The following ingredients are listed.

MEQUINOL

International Inventories

EU - EINECS/ELINCS

The following ingredients are listed.

ACETOACETOXYETHYL METHACRYLATE

MEQUINOL

Canada – DSL/NDSL

The following ingredients are listed.

ACETOACETOXYETHYL METHACRYLATE

MEQUINOL

US - TSCA

The following ingredients are listed.

ACETOACETOXYETHYL METHACRYLATE

MEQUINOL

TOKUYAMA REBASE II Liquid

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

16. OTHER INFORMATION

Revision Date	08/28/2017
Revision	3

Disclaimer

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 information.

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Revision Date 08/17/2017
Revision 2

SAFETY DATA SHEET
TOKUYAMA REBASE II Powder

1. IDENTIFICATION

Product Name	TOKUYAMA REBASE II Powder
Identified uses	Denture Liner, a component of kit. For dental professionals only.
Supplier	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
Contact Person	http://www.tokuyama-dental.com/tdc/contact.html
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
Emergency Telephone	California Poison Control System - San Francisco Division San Francisco General Hospital Bldg 5 Rm 2A21 , 1001 Potrero Ave , San Francisco Emergency telephone number : 1 800 222 1222 E- mail address : coadmin @ calpoison . org http://www. calpoison. org National Capital Poison Center 3201 New Mexico Ave, Ste 310, Washington DC Emergency telephone number: 1 800 222 1222 Telephone number: +1 202 362 3867 Facsimile numer: +1 202 362 8377 E-mail address: pc@poison.org http://www.poison.org

2. HAZARD(S) IDENTIFICATION

Appearance	Powder
Color	Pink
Odor	No information available.
GHS Pictogram	

Signal Word	Warning	
Hazard Statements		
	H317	May cause an allergic skin reaction.
Precautionary Statements		
	P261	Avoid breathing vapour/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.

TOKUYAMA REBASE II Powder

	P501	Dispose of contents/container in accordance with local regulations.
Contains	BENZOYL PEROXIDE	

GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Skin Sens. 1 - H317
Environment	Not classified.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

General Information

Prolonged contact may cause redness and irritation. May cause sensitisation by skin contact. May cause minor irritation on eye contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

BENZOYL PEROXIDE		1-5%
CAS No.: 94-36-0	EC No.: 202-327-6	
GHS Classification Org. Perox. B - H241; Eye Irrit. 2 - H319; Skin Sens. 1 - H317		

TITANIUM DIOXIDE		< 1%
CAS No.: 13463-67-7	EC No.: 236-675-5	
GHS Classification Not classified.		

4. FIRST-AID MEASURES

Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Try to induce vomiting. Get medical attention if any discomfort continues.

Skin Contact

Wash the skin immediately with soap and water.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

Not irritating.

Skin Contact

Prolonged contact may cause redness and irritation. May cause sensitization by skin contact.

Eye Contact

Slightly irritating.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

CAUTION! First aid personnel must be aware of own risk during rescue! Wear suitable protective clothing.

TOKUYAMA REBASE II Powder

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Flash point (°C)

Not available.

Extinguishing Media

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

Specific Hazards

When heated and in case of fire, irritating vapors/gases may be formed.

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

Reference to other sections

For personal protection, see section 8.

7. HANDLING AND STORAGE

Handling

All handling to take place in well-ventilated area.

Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight, sparks and open flames.

Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
BENZOYL PEROXIDE	PEL		5 mg/m3			
BENZOYL PEROXIDE	ACGIH		5 mg/m3			A4
TITANIUM DIOXIDE	ACGIH		10 mg/m3			A4
TITANIUM DIOXIDE	PEL		15 mg/m3			

COMPONENT	IDLH
BENZOYL PEROXIDE	1500 mg/m3
TITANIUM DIOXIDE	5000 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.
A4: Not Classifiable as a Human Carcinogen.

Protective Equipment

TOKUYAMA REBASE II Powder

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

In case of inadequate ventilation use suitable respirator.

Hand Protection

Wear protective gloves.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Color	Pink
Odor	No information available.
Solubility	No information available.

Initial boiling point and boiling range

Not available.

Melting point (°C)

Not available.

Relative density

Not available.

Vapor density (air=1)

Not available.

Vapor pressure

Not available.

Evaporation rate

Not available.

pH-Value, Conc. Solution

Not available.

pH-Value, Diluted Solution

Not available.

Viscosity

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point

Not available.

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

TOKUYAMA REBASE II Powder

Partition Coefficient
(N-Octanol/Water)
Not available.
Explosive properties
Explosive Propeties: St2, strong
Other Flammability
Not available.
Oxidising properties
Not available.

10. STABILITY AND REACTIVITY

Reactivity
No information available.
Stability
Dust may form an explosive mixture in the atmosphere.
Hazardous reactions:
Risk of dust explosion.
Conditions To Avoid
Keep away from heat, sparks and open flame. Protect against direct sunlight.
Materials To Avoid
Strong oxidizing agents.
Hazardous Decomposition Products
Toxic gases are generated when heated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
Not available.

Skin Corrosion/Irritation:
Prolonged contact may cause redness and irritation.

Serious eye damage/irritation:
Slightly Irritating.

Respiratory or skin sensitisation:
Respiratory sensitisation
Not available.
Skin sensitisation
May cause sensitization by skin contact.

Germ cell mutagenicity:
Not available.

Carcinogenicity:
IARC Carcinogenicity
BENZOYL PEROXIDE : IARC Group 3 Not classifiable as to its carcinogenicity to humans. TITANIUM DIOXIDE: IARC Group 2B Possibly carcinogenic to humans.
NTP - Carcinogenicity
Not listed.
OSHA - Carcinogenicity
Not listed.

Reproductive Toxicity:
Not available.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Not available.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

Not available.

Aspiration hazard:

Viscosity

Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data on possible environmental effects have been found.

Toxicity

No data available.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

Mobility:

No information available.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

General	Not regulated.
UN No. (DOT/TDG)	N/A
UN No. (IMDG)	N/A
UN No. (ICAO)	N/A
DOT Proper Shipping Name	Not applicable.

DOT Hazard Class

No classification noted.

DOT Hazard Label

No DOT label requirement noted

IMDG Class	Not applicable.
ICAO Class	Not applicable.

Transport Labels

No transport warning sign required.

DOT Pack Group	Not applicable.
IMDG Pack Group	Not applicable.
Air Pack Group	Not applicable.

Environmentally Hazardous Substance/Marine Pollutant

No.

TOKUYAMA REBASE II Powder

Special precautions for user Not applicable.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

This Product is Hazardous under the OSHA Hazard Communication Standard. California Proposition 65. Warning : Titanium dioxide. This product contains a chemical known to the State of California to cause cancer.

Regulatory References

29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

The following ingredients are listed.

BENZOYL PEROXIDE

CAA Accidental Release Prevention

None of the ingredients are listed.

SARA (311/312) Hazard Categories

Acute

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

The following ingredients are listed.

TITANIUM DIOXIDE; Known to the State of California to cause cancer.

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed.

BENZOYL PEROXIDE

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

All ingredients are listed.

Rhode Island "Right To Know" List

All ingredients are listed.

Minnesota "Right To Know" List

All ingredients are listed.

New Jersey "Right To Know" List

All ingredients are listed.

Pennsylvania "Right To Know" List

All ingredients are listed.

International Inventories

EU - EINECS/ELINCS

All ingredients are listed or exempt.

Canada – DSL/NDSL

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

TOKUYAMA REBASE II Powder

16. OTHER INFORMATION

Revision Comments	
Revision Date	08/17/2017
Revision	2

Disclaimer

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 information.

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Revision Date 08/05/2017

Revision 2

SAFETY DATA SHEET
TOKUYAMA REBASE II Adhesive

1. IDENTIFICATION

Product Name	TOKUYAMA REBASE II Adhesive
Identified uses	Denture Liner, a component of kit. For dental professionals only.
Supplier	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
Contact Person	http://www.tokuyama-dental.com/tdc/contact.html
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
Emergency Telephone	California Poison Control System - San Francisco Division San Francisco General Hospital Bldg 5 Rm 2A21, 1001 Potrero Ave, San Francisco Emergency telephone number: 1 800 222 1222 E-mail address: coadmin@calpoison.org http://www.calpoison.org National Capital Poison Center 3201 New Mexico Ave, Ste 310, Washington DC Emergency telephone number: 1 800 222 1222 Telephone number: +1 202 362 3867 Facsimile numer: +1 202 362 8377 E-mail address: pc@poison.org http://www.poison.org

2. HAZARD(S) IDENTIFICATION

Appearance	Clear liquid
Color	Yellowish
Odor	Characteristic
GHS Pictogram	

Signal Word	Danger	
Hazard Statements		
	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
Precautionary Statements		
	P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.

	P403+233	Store in a well-ventilated place. Keep container tightly closed.
	P501	Dispose of contents/container in accordance with local regulations.
Contains	ACETONE	
	ETHYL ACETATE	

GHS Classification

Physical and Chemical Hazards	Flam. Liq. 2 - H225
Human health	Eye Irrit. 2 - H319;STOT SE 3 - H336
Environment	Not classified.

Hazard Not Otherwise Classified (HNOC)

Repeated exposure may cause skin dryness or cracking.

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

General Information

May cause irritation to the respiratory system. Vapors may cause drowsiness and dizziness. IF SWALLOWED: Slightly irritating. (DIGESTIVE SYSTEM.) This chemical may cause skin/eye irritation. Product has a defatting effect on skin. Prolonged skin contact may cause redness, irritation and dry skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

ACETONE		30-60%
CAS No.: 67-64-1	EC No.: 200-662-2	
GHS Classification Flam. Liq. 2 - H225; Eye Irrit. 2 - H319; STOT SE 3 - H336		

ETHYL ACETATE		30-60%
CAS No.: 141-78-6	EC No.: 205-500-4	
GHS Classification Flam. Liq. 2 - H225; Eye Irrit. 2 - H319; STOT SE 3 - H336		

4. FIRST-AID MEASURES

Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention if any discomfort continues.

Skin Contact

Wash the skin immediately with soap and water.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

Irritating to respiratory system. Vapors may cause drowsiness and dizziness.

Ingestion

Slightly irritating. (DIGESTIVE SYSTEM.)

Skin Contact

Slightly irritating. Product has a defatting effect on skin. Prolonged contact may cause redness and irritation.

TOKUYAMA REBASE II Adhesive

Eye Contact

Irritating and may cause redness and pain.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

CAUTION! First aid personnel must be aware of own risk during rescue! Wear suitable protective clothing.

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Flash point (°C) -14°C

Extinguishing Media

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

Specific Hazards

When heated and in case of fire, irritating vapors/gases may be formed.

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

Reference to other sections

For personal protection, see section 8.

7. HANDLING AND STORAGE

Handling

All handling to take place in well-ventilated area.

Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight, sparks and open flames.

Storage Class

Flammable liquid storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
ACETONE	PEL	1000 ppm	2400 mg/m3			
ACETONE	ACGIH	500 ppm		750 ppm		A4
ETHYL ACETATE	ACGIH	400 ppm				
ETHYL ACETATE	PEL	400 ppm	1400 mg/m3			

TOKUYAMA REBASE II Adhesive

COMPONENT	IDLH
ACETONE	2500 ppm
ETHYL ACETATE	2000 ppm

ACGIH=American Conference of Governmental Industrial Hygienists.
A4: Not Classifiable as a Human Carcinogen.

Protective Equipment

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

In case of inadequate ventilation use suitable respirator.

Hand Protection

Wear protective gloves.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid.
Color	Yellowish
Odor	Characteristic.
Solubility	No information available.
Initial boiling point and boiling range	57°C

Melting point (°C)

Not available.

Relative density

Not available.

Vapor density (air=1)

Not available.

Vapor pressure

Not available.

Evaporation rate

Not available.

pH-Value, Conc. Solution

Not available.

pH-Value, Diluted Solution

Not available.

Viscosity

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point	-14°C

Auto Ignition Temperature (°C)
Not available.
Flammability Limit - Lower(%)
Not available.
Flammability Limit - Upper(%)
Not available.
Partition Coefficient
(N-Octanol/Water)
Not available.
Explosive properties
Not available.
Other Flammability
Not available.
Oxidising properties
Not available.

10. STABILITY AND REACTIVITY

Reactivity
No information available.
Stability
HIGHLY FLAMMABLE!
Hazardous reactions:
Not available.
Conditions To Avoid
Keep away from heat, sparks and open flame. Protect against direct sunlight.
Materials To Avoid
Strong oxidizing agents.
Hazardous Decomposition Products
Toxic gases are generated when heated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
Not available.

Skin Corrosion/Irritation:
Slightly irritating. Product has a defatting effect on skin. Prolonged skin contact may cause redness and irritation.

Serious eye damage/irritation:
Irritating and may cause redness and pain.

Respiratory or skin sensitisation:
Respiratory sensitisation
Not available.
Skin sensitisation
Not available.

Germ cell mutagenicity:
Not available.

Carcinogenicity:
Acetone
EPA: Data are inadequate for an assessment of human carcinogenic potential
IARC Carcinogenicity
Not listed.
NTP - Carcinogenicity
Not listed.
OSHA - Carcinogenicity
Not listed.

TOKUYAMA REBASE II Adhesive

Reproductive Toxicity:

Not available.

Specific target organ toxicity - single exposure:

Irritating to respiratory system. Vapors may cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

Not available.

Aspiration hazard:

Viscosity

Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data on possible environmental effects have been found.

Toxicity

No data available.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

Mobility:

No information available.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

UN No. (DOT/TDG)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133
DOT Proper Shipping Name	ADHESIVES, CONTAINING A FLAMMABLE LIQUID
TDG Proper Shipping Name	ADHESIVES, CONTAINING A FLAMMABLE LIQUID
DOT Hazard Class	
3	
DOT Hazard Label	
Flammable Liquid	
TDG Class	3
TDG Label(s)	3
IMDG Class	3
ICAO Class	3
Transport Labels	

TOKUYAMA REBASE II Adhesive

DOT Pack Group	II
IMDG Pack Group	II
Air Pack Group	II

Environmentally Hazardous Substance/Marine Pollutant
No.

EMS	F-E, S-D
Special precautions for user	Not applicable.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes
Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)
This Product is Hazardous under the OSHA Hazard Communication Standard.
Regulatory References
29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed.
CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
All ingredients are listed.
ACETONE; 5, 000 lbs (2270 Kg)
ETHYL ACETATE; 5, 000 lbs (2270 Kg)
SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed.
SARA 313 Emission Reporting
None of the ingredients are listed.
CAA Accidental Release Prevention
None of the ingredients are listed.
SARA (311/312) Hazard Categories
Fire Acute
OSHA Highly Hazardous Chemicals
None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed.
California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed.
California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed.
Massachusetts "Right To Know" List
All ingredients are listed.
Rhode Island "Right To Know" List
All ingredients are listed.
Minnesota "Right To Know" List
All ingredients are listed.

TOKUYAMA REBASE II Adhesive

New Jersey "Right To Know" List
All ingredients are listed.
Pennsylvania "Right To Know" List
All ingredients are listed.

International Inventories

EU - EINECS/ELINCS
All ingredients are listed or exempt.
Canada – DSL/NDSL
All ingredients are listed or exempt.
US - TSCA
All ingredients are listed or exempt.
US – TSCA 12(b) Export Notification
None of the ingredients are listed.

16. OTHER INFORMATION

Revision Comments

Revision Date	08/05/2017
Revision	2

Disclaimer

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 information.

X540

Revision Date 08/28/2017
Revision 3

SAFETY DATA SHEET
TOKUSO RESIN HARDENER-II

1. IDENTIFICATION

Product Name	TOKUSO RESIN HARDENER-II
Identified uses	Denture Liner, a component of kit. For dental professionals only.
Supplier	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
Contact Person	http://www.tokuyama-dental.com/tdc/contact.html
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
Emergency Telephone	California Poison Control System - San Francisco Division San Francisco General Hospital Bldg 5 Rm 2A21, 1001 Potrero Ave, San Francisco Emergency telephone number : 1 800 222 1222 E- mail address : coadmin @ calpoison.org http://www.calpoison.org National Capital Poison Center 3201 New Mexico Ave, Ste 310, Washington DC Emergency telephone number : 1 800 222 1222 Telephone number : + 1 202 362 3867 Facsimile numer : + 1 202 362 8377 E- mail address : pc @ poison.org http ://www.poison.org

2. HAZARD(S) IDENTIFICATION

Appearance	Powder
Color	White
Odor	Odorless
GHS Pictogram	

Signal Word	Warning	
Hazard Statements		
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
Precautionary Statements		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

TOKUSO RESIN HARDENER-II

GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2 - H315;Eye Irrit. 2 - H319
Environment	Not classified.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

General Information

IF SWALLOWED: Slightly irritating. (DIGESTIVE SYSTEM.) This chemical may cause skin/eye irritation. Prolonged skin contact may cause redness and irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SODIUM BICARBONATE		60-80%
CAS No.: 144-55-8	EC No.: 205-633-8	
GHS Classification Eye Irrit. 2B - H320		

SODIUM SULPHITE		20-40%
CAS No.: 7757-83-7	EC No.: 231-821-4	
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319		

4. FIRST-AID MEASURES

Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Try to induce vomiting. Get medical attention.

Skin Contact

Wash the skin immediately with soap and water.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Ingestion

Slightly irritating. (DIGESTIVE SYSTEM.)

Skin Contact

Slightly irritating. Prolonged and frequent contact may cause redness and irritation.

Eye Contact

Slightly irritating.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

Treat Symptomatically. Wear suitable protective clothing.

TOKUSO RESIN HARDENER-II

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Flash point (°C)

Not available.

Extinguishing Media

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

Specific Hazards

When heated and in case of fire, irritating vapors/gases may be formed.

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

All handling to take place in well-ventilated area.

Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, sparks and open flame.

Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Comments

No exposure limits noted for ingredient(s). No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds the Recommended Occupational Exposure Limit.

OSHA PEL - TWA (8-hrs)

Inert or Nuisance dust: 15 mg/m3 (Total dust), 5 mg/m3 (Respirable fraction)

ACGIH TLV - TWA (8-hrs)

Particles not otherwise specified: 10 mg/m3 (Inhalable particles), 3 mg/m3 (Respirable particles)

Protective Equipment

Engineering Measures

Provide adequate general and local exhaust ventilation.

TOKUSO RESIN HARDENER-II

Respiratory Equipment

In case of inadequate ventilation use suitable respirator.

Hand Protection

Wear protective gloves.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Color	White
Odor	Odorless
Solubility	Miscible with water

Initial boiling point and boiling range

Not available.

Melting point (°C)

Not available.

Relative density

Not available.

Vapor density (air=1)

Not available.

Vapor pressure

Not available.

Evaporation rate

Not available.

pH-Value, Conc. Solution 10

pH-Value, Diluted Solution

Not available.

Viscosity

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point

Not available.

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Partition Coefficient
(N-Octanol/Water)

Not available.

Explosive properties

Not available.

Other Flammability

Not available.

Oxidising properties

Not available.

TOKUSO RESIN HARDENER-II

Physical Data Comments Reducing Agents

10. STABILITY AND REACTIVITY

Reactivity

Reducing agent - avoid contact with oxidizers.

Stability

Stable under normal temperature conditions and recommended use.

Hazardous reactions:

Not available.

Conditions To Avoid

Keep away from heat, sparks and open flame. Protect against direct sunlight.

Materials To Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Toxic gases are generated when heated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Not available.

Skin Corrosion/Irritation:

Slightly irritating. Prolonged and frequent contact may cause redness and irritation.

Serious eye damage/irritation:

Slightly Irritating.

Respiratory or skin sensitisation:

Respiratory sensitisation

Not available.

Skin sensitisation

Not available.

Germ cell mutagenicity:

Not available.

Carcinogenicity:

Not established : IARC, NTP, EU, OSHA, ACGIH

Reproductive Toxicity:

Not available.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Not available.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

Not available.

Aspiration hazard:

Viscosity

Not available.

12. ECOLOGICAL INFORMATION

Toxicity

No data available.

TOKUSO RESIN HARDENER-II

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

Mobility:

The product is miscible with water. May spread in water systems.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

General	Not regulated.
UN No. (DOT/TDG)	N/A
UN No. (IMDG)	N/A
UN No. (ICAO)	N/A
DOT Proper Shipping Name	Not applicable.

DOT Hazard Class

No classification noted.

DOT Hazard Label

No DOT label requirement noted

IMDG Class	Not applicable.
ICAO Class	Not applicable.
Transport Labels	
	No transport warning sign required.
DOT Pack Group	Not applicable.
IMDG Pack Group	Not applicable.
Air Pack Group	Not applicable.

Environmentally Hazardous Substance/Marine Pollutant

No.

Special precautions for user	Not available.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

This Product is Hazardous under the OSHA Hazard Communication Standard.

Regulatory References

29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

TOKUSO RESIN HARDENER-II

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

SARA (311/312) Hazard Categories

Acute

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

None of the ingredients are listed.

Rhode Island "Right To Know" List

None of the ingredients are listed.

Minnesota "Right To Know" List

None of the ingredients are listed.

New Jersey "Right To Know" List

None of the ingredients are listed.

Pennsylvania "Right To Know" List

None of the ingredients are listed.

International Inventories

EU - EINECS/ELINCS

All ingredients are listed or exempt.

Canada – DSL/NDSL

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

16. OTHER INFORMATION

Revision Date	08/28/2017
Revision	3

Disclaimer

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 information.