

SAFETY DATA SHEETS

This SDS packet was issued with item:

076749816

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076749824 076749832 076749840 076750087

REVISION DATE 15/01/2013

MATERIAL SAFETY DATA SHEET

TOKUYAMA REBASE II Adhesive

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

PRODUCT NAME	TOKUYAMA REBASE II Adhesive		
PRODUCT USE	Denture Liner, a component of kit. For dental professionals only.		
SUPPLIER	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)	MANUFACTURER	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan TEL: +81-3-3835-7201
CONTACT PERSON	http://www.tokuyama-dental.com/contact.htm		
EMERGENCY TELEPHONE	<p>Washington National Capital Poison Center 3201 New Mexico Avenue, Suite 310 Washington, DC 20016 Telephone: +1 202 362 3867 Emergency telephone: 1 800 222 1222 Fax: +1 202 362 8377 E-mail: pc@poison.org Web site: http://www.poison.org</p> <p>San Francisco California Poison Control System at San Francisco General Hospital University of California San Fransico, Box 1369 1001 Potrero Avenue, Bidg 5 Rm 2A21 San Francisco, California 94143-1369 Telephone: +1 415 643 3200 Emergency telephone: 1 800 222 1222 Fax: +1 415 502 6010 E-mail: coadmin@calpoison.org Web site: http://www.calpoison.org</p> <p>http://www.who.int/ipcs/poisons/centre/en/</p>		

2 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

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.

EYE CONTACT

Irritating and may cause redness and pain.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
ACETONE	200-662-2	67-64-1	30-60%
ETHYL ACETATE	205-500-4	141-78-6	30-60%

4 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.

REVISION DATE 15/01/2013

TOKUYAMA REBASE II Adhesive**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.

5 FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

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

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapors.

SPECIFIC HAZARDS

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

PROTECTIVE MEASURES IN FIRE

Wear full protective clothing.

FLASH POINT (°C) -14°C

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.

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.

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			
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

REVISION DATE 15/01/2013

TOKUYAMA REBASE II Adhesive**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

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 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
BOILING POINT (°C)	57°C
FLASH POINT (°C)	-14°C

10 STABILITY AND REACTIVITY**STABILITY**

HIGHLY FLAMMABLE!

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**TOXICOLOGICAL INFORMATION**

No data on possible toxic effects have been found.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

No data on possible environmental effects have been found.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

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

14 TRANSPORT INFORMATION

REVISION DATE 15/01/2013

TOKUYAMA REBASE II Adhesive



DOT PROPER SHIPPING NAME	ADHESIVES, CONTAINING A FLAMMABLE LIQUID
TDG SHIPPING NAME	ADHESIVES, CONTAINING A FLAMMABLE LIQUID
IDENTIFICATION No.	1133
TUNNEL RESTRICTION CODE	(D/E)
CEPIC TEC(R) NO.	30GF1-I+II, 30GF1-sp
DOT HAZARD CLASS	3
DOT PACKING GROUP	II
U.S DOT HAZARD LABEL	Flammable Liquid
UN NO. SEA	1133
IMDG CLASS	3
IMDG PACK GR.	II
EMS	F-E, S-D
UN NO. AIR	1133
ICAO CLASS	3
AIR PACK GR.	II
TDG CLASS	3
TDG LABEL(S)	3
TDG PACKING GROUP	II

15 REGULATORY INFORMATION

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
ACETONE	DSL	Yes.						
ETHYL ACETATE	DSL	Yes.						

COMPONENT	TSCA 12(b) Export Notification
ACETONE	Yes.
ETHYL ACETATE	Yes.

US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
ACETONE	Not Listed	5 000 lbs	No.
ETHYL ACETATE	Not Listed	5 000 lbs	No.

CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
ACETONE	Not Listed
ETHYL ACETATE	Not Listed

REVISION DATE 15/01/2013

TOKUYAMA REBASE II Adhesive

US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
ACETONE	67-64-1	Not Listed	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.
ETHYL ACETATE	141-78-6	Not Listed	Yes.	Yes.	Yes.	Yes.	Yes.	Yes.

REGULATORY REFERENCES

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

16 OTHER INFORMATION

REVISION DATE

15/01/2013

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.

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/contact.htm
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
Emergency Telephone	Washington National Capital Poison Center 3201 New Mexico Avenue, Suite 310 Washington, DC 20016 Telephone: +1 202 362 3867 Emergency telephone: +1 800 222 1222 Fax: +1 202 362 8377 E-mail: pc@poison.org Web site: http://www.poison.org San Francisco California Poison Control System at San Francisco General Hospital University of California San Francisco, Box 1369 1001 Potrero Avenue, Bldg 5 Rm 2A21 San Francisco, California 94143-1369 Telephone: +1 415 643 3200 Emergency telephone: +1 800 222 1222 Fax: +1 415 502 6010 E-mail: coadmin@calpoison.org Web site: http://www.calpoison.org http://www.who.int/ipcs/poisons/centre/en/

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.

TOKUYAMA REBASE II Adhesive

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

TOKUYAMA REBASE II Adhesive

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

This is first issue.

Revision Date

08/05/2014

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.

Revision Date 11/28/2014

Revision 2

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) http://www.tokuyama-dental.com/contact.htm
Contact Person	
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
Emergency Telephone	Washington National Capital Poison Center 3201 New Mexico Avenue, Suite 310 Washington, DC 20016 Telephone: +1 202 362 3867 Emergency telephone: +1 800 222 1222 Fax: +1 202 362 8377 E-mail: pc@poison.org Web site: http://www.poison.org San Francisco California Poison Control System at San Francisco General Hospital University of California San Francisco, Box 1369 1001 Potrero Avenue, Bldg 5 Rm 2A21 San Francisco, California 94143-1369 Telephone: +1 415 643 3200 Emergency telephone: +1 800 222 1222 Fax: +1 415 502 6010 E-mail: coadmin@calpoison.org Web site: http://www.calpoison.org http://www.who.int/ipcs/poisons/centre/en/

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.

TOKUYAMA REBASE II Liquid

**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	11/28/2014
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.

Revision Date 11/28/2014

Revision 2

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)
<http://www.tokuyama-dental.com/contact.htm>

Contact Person

Manufacturer Tokuyama Dental Corporation
38-9, Taitou 1-chome, Taitou-ku, Tokyo
110-0016, Japan
TEL: +81-3-3835-2261

Emergency Telephone Washington
National Capital Poison Center
3201 New Mexico Avenue, Suite 310
Washington,
DC 20016
Telephone: +1 202 362 3867
Emergency telephone: +1 800 222 1222
Fax: +1 202 362 8377
E-mail: pc@poison.org
Web site: <http://www.poison.org>

San Francisco
California Poison Control System
at San Francisco General Hospital
University of California San Francisco, Box 1369
1001 Potrero Avenue, Bldg 5 Rm 2A21
San Francisco, California 94143-1369
Telephone: +1 415 643 3200
Emergency telephone: +1 800 222 1222
Fax: +1 415 502 6010
E-mail: coadmin@calpoison.org
Web site: <http://www.calpoison.org>

<http://www.who.int/ipcs/poisons/centre/en/>

2. HAZARD(S) IDENTIFICATION

Appearance Powder, dust

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, dust
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 11/28/2014

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.

Revision Date 03/17/2015
Revision 1

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/contact.htm
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
Emergency Telephone	Washington National Capital Poison Center 3201 New Mexico Avenue, Suite 310 Washington, DC 20016 Telephone: +1 202 362 3867 Emergency telephone: +1 800 222 1222 Fax: +1 202 362 8377 E-mail: pc@poison.org Web site: http://www.poison.org San Francisco California Poison Control System at San Francisco General Hospital University of California San Francisco, Box 1369 1001 Potrero Avenue, Bldg 5 Rm 2A21 San Francisco, California 94143-1369 Telephone: +1 415 643 3200 Emergency telephone: +1 800 222 1222 Fax: +1 415 502 6010 E-mail: coadmin@calpoison.org Web site: http://www.calpoison.org http://www.who.int/ipcs/poisons/centre/en/

2. HAZARD(S) IDENTIFICATION

Appearance	Powder, dust
Color	Pink
Odor	No information available.
GHS Pictogram	



Signal Word	Warning	
Hazard Statements	H317	May cause an allergic skin reaction.
Precautionary Statements	P261 P280 P302+352	Avoid breathing vapour/spray. Wear protective gloves/protective clothing/eye protection/face protection. 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, dust
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 Properties: 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:

TOKUYAMA REBASE II Powder

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

03/17/2015

Revision

1

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.