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 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

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

<table>
<thead>
<tr>
<th>BENZOYL PEROXIDE</th>
<th>1-5%</th>
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<tbody>
<tr>
<td>CAS No.: 94-36-0</td>
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<td>EC No.: 202-327-6</td>
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<table>
<thead>
<tr>
<th>TITANIUM DIOXIDE</th>
<th>&lt; 1%</th>
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<tbody>
<tr>
<td>CAS No.: 13463-67-7</td>
<td></td>
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<tr>
<td>EC No.: 236-675-5</td>
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</table>

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

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)  
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

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA (8-hrs)</th>
<th>STEL (15 min)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZOYL PEROXIDE</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BENZOYL PEROXIDE</td>
<td>ACGIH</td>
<td>5 mg/m3</td>
<td></td>
<td>A4</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>ACGIH</td>
<td>10 mg/m3</td>
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<td>A4</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
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</table>

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>IDLH</th>
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<tbody>
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<td>BENZOYL PEROXIDE</td>
<td>1500 mg/m3</td>
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<tr>
<td>TITANIUM DIOXIDE</td>
<td>5000 mg/m3</td>
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</tbody>
</table>

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

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<th>Property</th>
<th>Value</th>
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<td>Pink</td>
</tr>
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</tr>
<tr>
<td>Solubility</td>
<td>No information available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
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</tr>
<tr>
<td>Melting point (°C)</td>
<td>Not available.</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Vapor density (air=1)</td>
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<td>pH-Value, Diluted Solution</td>
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<tr>
<td>Viscosity</td>
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<td>Decomposition temperature (°C)</td>
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<tr>
<td>Odour Threshold, Lower</td>
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<tr>
<td>Odour Threshold, Upper</td>
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<tr>
<td>Flash point</td>
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<td>Auto Ignition Temperature (°C)</td>
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<tr>
<td>Flammability Limit - Lower(%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Partiton 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

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.
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<thead>
<tr>
<th>Revision Comments</th>
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<tbody>
<tr>
<td>Revision Date</td>
<td>03/17/2015</td>
</tr>
<tr>
<td>Revision</td>
<td>1</td>
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</table>

**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 Liquid

### 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>TOKUYAMA REBASE II Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identified uses</td>
<td>Denture Liner, a component of kit. For dental professionals only.</td>
</tr>
<tr>
<td>Supplier</td>
<td>Tokuyama Dental America Inc.</td>
</tr>
<tr>
<td>Tel</td>
<td>(877) 378 3548 (Toll-Free)</td>
</tr>
<tr>
<td>Contact Person</td>
<td><a href="http://www.tokuyama-dental.com/contact.htm">http://www.tokuyama-dental.com/contact.htm</a></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Tokuyama Dental Corporation</td>
</tr>
<tr>
<td></td>
<td>38-9, Taitou 1-chome, Taitou-ku, Tokyo</td>
</tr>
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<td></td>
<td>110-0016, Japan</td>
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<td></td>
<td>TEL: +81-3-3835-2261</td>
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<tr>
<td></td>
<td>National Capital Poison Center</td>
</tr>
<tr>
<td></td>
<td>3201 New Mexico Avenue, Suite 310</td>
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<td></td>
<td>Washington, DC 20016</td>
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<td>Telephone: +1 202 362 3867</td>
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<td>Emergency telephone: +1 800 222 1222</td>
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<td>Fax: +1 202 362 8377</td>
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<td>California Poison Control System</td>
</tr>
<tr>
<td></td>
<td>at San Francisco General Hospital</td>
</tr>
<tr>
<td></td>
<td>University of California San Francisco, Box 1369</td>
</tr>
<tr>
<td></td>
<td>1001 Potrero Avenue, Bldg 5 Rm 2A21</td>
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<td>E-mail: <a href="mailto:coadmin@calpoison.org">coadmin@calpoison.org</a></td>
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</table>

### 2. HAZARD(S) IDENTIFICATION

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>GHS Pictogram</td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETOACETOXYETHYL METHACRYLATE</td>
<td>30-60%</td>
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<tr>
<td>CAS No.: 21282-97-3</td>
<td>EC No.: 244-311-1</td>
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<tr>
<td>GHS Classification</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

| 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.

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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.

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<tr>
<td>Odour Threshold, Upper</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>178°C</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
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

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>11/28/2014</td>
</tr>
<tr>
<td>Revision</td>
<td>2</td>
</tr>
</tbody>
</table>

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

2. HAZARD(S) IDENTIFICATION

Appearance: Clear liquid.
Color: Yellowish
Odor: Characteristic.
GHS Pictogram: Highly flammable liquid and vapor.

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

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>30-60%</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>30-60%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>67-64-1</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>141-78-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2 - H225</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>STOT SE 3 - H336</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA (8-hrs)</th>
<th>STEL (15 min)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>PEL</td>
<td>1000 ppm</td>
<td>2400 mg/m³</td>
<td></td>
</tr>
<tr>
<td>ACETONE</td>
<td>ACGIH</td>
<td>500 ppm</td>
<td>750 ppm</td>
<td>A4</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>ACGIH</td>
<td>400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>PEL</td>
<td>400 ppm</td>
<td>1400 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>
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**

![Eye Protection](image1)
![Hand Protection](image2)

**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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Yellowish</td>
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<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Solubility</td>
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<td>Initial boiling point and boiling range</td>
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<td>Melting point (°C)</td>
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<td>Relative density</td>
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<tr>
<td>Vapor pressure</td>
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</tr>
<tr>
<td>Evaporation rate</td>
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<tr>
<td>pH-Value, Conc. Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH-Value, Diluted Solution</td>
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</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour Threshold, Lower</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour Threshold, Upper</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>-14°C</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>UN No. (DOT/TDG)</th>
<th>1133</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No. (IMDG)</td>
<td>1133</td>
</tr>
<tr>
<td>UN No. (ICAO)</td>
<td>1133</td>
</tr>
<tr>
<td>DOT Proper Shipping Name</td>
<td>ADHESIVES, CONTAINING A FLAMMABLE LIQUID</td>
</tr>
<tr>
<td>TDG Proper Shipping Name</td>
<td>ADHESIVES, CONTAINING A FLAMMABLE LIQUID</td>
</tr>
<tr>
<td>DOT Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>DOT Hazard Label</td>
<td>Flammable Liquid</td>
</tr>
<tr>
<td>TDG Class</td>
<td>3</td>
</tr>
<tr>
<td>TDG Label(s)</td>
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</tr>
<tr>
<td>IMDG Class</td>
<td>3</td>
</tr>
<tr>
<td>ICAO Class</td>
<td>3</td>
</tr>
</tbody>
</table>

Transport Labels
TOKUYAMA REBASE II Adhesive

DOT Pack Group
IMDG Pack Group
Air Pack Group
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

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.
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.
# SAFETY DATA SHEET
## TOKUSO RESIN HARDENER-II

### 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>TOKUSO RESIN HARDENER-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identified uses</td>
<td>Denture Liner, a component of kit. For dental professionals only.</td>
</tr>
<tr>
<td>Supplier</td>
<td>Tokuyama Dental America Inc.</td>
</tr>
<tr>
<td>Telephone</td>
<td>(877) 378 3548 (Toll-Free)</td>
</tr>
<tr>
<td>Contact Person</td>
<td><a href="http://www.tokuyama-dental.com/contact.htm">http://www.tokuyama-dental.com/contact.htm</a></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Tokuyama Dental Corporation</td>
</tr>
<tr>
<td>Telephone</td>
<td>38-9, Taitou 1-chome, Taitou-ku, Tokyo</td>
</tr>
<tr>
<td></td>
<td>110-0016, Japan</td>
</tr>
<tr>
<td>Emergency Telephone</td>
<td>Washington</td>
</tr>
<tr>
<td></td>
<td>National Capital Poison Center</td>
</tr>
<tr>
<td></td>
<td>3201 New Mexico Avenue, Suite 310</td>
</tr>
<tr>
<td></td>
<td>Washington, DC 20016</td>
</tr>
<tr>
<td></td>
<td>Telephone: +1 202 362 3867</td>
</tr>
<tr>
<td></td>
<td>Emergency telephone: +1 800 222 1222</td>
</tr>
<tr>
<td></td>
<td>Fax: +1 202 362 8377</td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:pc@poison.org">pc@poison.org</a></td>
</tr>
<tr>
<td></td>
<td>Web site: <a href="http://www.poison.org">http://www.poison.org</a></td>
</tr>
</tbody>
</table>

### 2. HAZARD(S) IDENTIFICATION

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Powder, dust</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>GHS Pictogram</td>
<td>![Exclamation Mark]</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical and Chemical Hazards</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Human health</td>
<td>Skin Irrit. 2 - H315; Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>Environment</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM BICARBONATE</td>
<td>60-80%</td>
</tr>
<tr>
<td>SODIUM SULPHITE</td>
<td>20-40%</td>
</tr>
</tbody>
</table>

**SODIUM BICARBONATE**

- CAS No.: 144-55-8
- EC No.: 205-633-8

**GHS Classification**

- Eye Irrit. 2B - H320

**SODIUM SULPHITE**

- 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.
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  
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder, dust</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density (air=1)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH-Value, Conc. Solution</td>
<td>10</td>
</tr>
<tr>
<td>pH-Value, Diluted Solution</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour Threshold, Lower</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odour Threshold, Upper</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition Coefficient (N-Octanol/Water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Flammability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
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

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

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>11/28/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>2</td>
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