SAFETY DATA SHEET
TOKUYAMA REBASE II Adhesive

1. IDENTIFICATION

Product Name: TOKUYAMA REBASE II Adhesive
Identified uses: Denture Liner, a component of kit. For dental professionals only.
Supplier: Tokuyama Dental America Inc.
Tel: (877) 378 3548 (Toll-Free)
Contact Person: http://www.tokuyama-dental.com/tdc/contact.html
Manufacturer: Tokuyama Dental Corporation
38-9, Taitou 1-chome, Taitou-ku, Tokyo
110-0016, Japan
Emergency Telephone: California Poison Control System - San Francisco Division
San Francisco General Hospital
Bldg 5 Rm 2A21, 1001 Potrero Ave, San Francisco
Emergency telephone number: 1 800 222 1222
E-mail address: coadmin@calpoison.org
http://www.calpoison.org

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
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>
<th>CAS No.</th>
<th>EC No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>30-60%</td>
<td>67-64-1</td>
<td>200-662-2</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>30-60%</td>
<td>141-78-6</td>
<td>205-500-4</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

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>2500 ppm</td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>2000 ppm</td>
</tr>
</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

<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>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>57°C</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>Not available.</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>-14°C</td>
</tr>
</tbody>
</table>
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>
<td>3</td>
</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  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

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

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>08/05/2017</th>
</tr>
</thead>
<tbody>
<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 information.