

Revision Date 08/28/2017

Revision 3

## SAFETY DATA SHEET

### TOKUSO RESIN HARDENER-II

#### 1. IDENTIFICATION

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

#### 2. HAZARD(S) IDENTIFICATION

<b>Appearance</b>	Powder
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>GHS Pictogram</b>	



**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

<b>SODIUM BICARBONATE</b>	<b>60-80%</b>
<b>CAS No.: 144-55-8</b>	<b>EC No.: 205-633-8</b>

GHS Classification  
Eye Irrit. 2B - H320

<b>SODIUM SULPHITE</b>	<b>20-40%</b>
<b>CAS No.: 7757-83-7</b>	<b>EC No.: 231-821-4</b>

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/m<sup>3</sup> (Total dust), 5 mg/m<sup>3</sup> (Respirable fraction)

ACGIH TLV - TWA (8-hrs)

Particles not otherwise specified: 10 mg/m<sup>3</sup> (Inhalable particles), 3 mg/m<sup>3</sup> (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

<b>Appearance</b>	Powder
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Solubility</b>	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.

<b>pH-Value, Conc. Solution</b>	10
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### pH-Value, Diluted Solution

Not available.

### Viscosity

Not available.

### Decomposition temperature (°C)

Not available.

### Odour Threshold, Lower

Not available.

### Odour Threshold, Upper

Not available.

### Flash point

Not available.

### Auto Ignition Temperature (°C)

Not available.

### Flammability Limit - Lower(%)

Not available.

### Flammability Limit - Upper(%)

Not available.

### Partition Coefficient (N-Octanol/Water)

Not available.

### Explosive properties

Not available.

### Other Flammability

Not available.

### Oxidising properties

Not available.

**TOKUSO RESIN HARDENER-II**

Physical Data Comments

Reducing Agents

**10. STABILITY AND REACTIVITY****Reactivity**

Reducing agent - avoid contact with oxidizers.

**Stability**

Stable under normal temperature conditions and recommended use.

Hazardous reactions:

Not available.

**Conditions To Avoid**

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

**Materials To Avoid**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Toxic gases are generated when heated.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:**

Not available.

**Skin Corrosion/Irritation:**

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

**Serious eye damage/irritation:**

Slightly Irritating.

**Respiratory or skin sensitisation:****Respiratory sensitisation**

Not available.

**Skin sensitisation**

Not available.

**Germ cell mutagenicity:**

Not available.

**Carcinogenicity:**

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

**Reproductive Toxicity:**

Not available.

**Specific target organ toxicity - single exposure:****STOT - Single exposure**

Not available.

**Specific target organ toxicity - repeated exposure:****STOT - Repeated exposure**

Not available.

**Aspiration hazard:****Viscosity**

Not available.

**12. ECOLOGICAL INFORMATION****Toxicity**

No data available.

## TOKUSO RESIN HARDENER-II

### Degradability

No data available.

### Bioaccumulative potential

No data available on bioaccumulation.

### Partition coefficient

Not available.

### Mobility:

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

### Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

### Other adverse effects

Not known.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

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

## 14. TRANSPORT INFORMATION

**General** Not regulated.

**UN No. (DOT/TDG)** N/A

**UN No. (IMDG)** N/A

**UN No. (ICAO)** N/A

**DOT Proper Shipping Name** Not applicable.

### DOT Hazard Class

No classification noted.

### DOT Hazard Label

No DOT label requirement noted

**IMDG Class** Not applicable.

**ICAO Class** Not applicable.

### Transport Labels

No transport warning sign required.

**DOT Pack Group** Not applicable.

**IMDG Pack Group** Not applicable.

**Air Pack Group** Not applicable.

### Environmentally Hazardous Substance/Marine Pollutant

No.

**Special precautions for user** Not available.

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

Not applicable.

## 15. REGULATORY INFORMATION

### Regulatory Status (US)

This Product is Hazardous under the OSHA Hazard Communication Standard.

### Regulatory References

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

### US Federal Regulations

#### SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

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

None of the ingredients are listed.

## TOKUSO RESIN HARDENER-II

### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed.

### **SARA 313 Emission Reporting**

None of the ingredients are listed.

### **CAA Accidental Release Prevention**

None of the ingredients are listed.

### **SARA (311/312) Hazard Categories**

Acute

### **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed.

### **US State Regulations**

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

#### **Massachusetts "Right To Know" List**

None of the ingredients are listed.

#### **Rhode Island "Right To Know" List**

None of the ingredients are listed.

#### **Minnesota "Right To Know" List**

None of the ingredients are listed.

#### **New Jersey "Right To Know" List**

None of the ingredients are listed.

#### **Pennsylvania "Right To Know" List**

None of the ingredients are listed.

### **International Inventories**

#### **EU - EINECS/ELINCS**

All ingredients are listed or exempt.

#### **Canada – DSL/NDSL**

All ingredients are listed or exempt.

#### **US - TSCA**

All ingredients are listed or exempt.

#### **US – TSCA 12(b) Export Notification**

None of the ingredients are listed.

## 16. OTHER INFORMATION

**Revision Date** 08/28/2017

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### 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.