

Revision Date 01/05/2018

Revision 3

## SAFETY DATA SHEET

### TOKUSO REBASE MR. BOND

#### 1. IDENTIFICATION

<b>Product Name</b>	TOKUSO REBASE MR. BOND
<b>Identified uses</b>	Dental Adhesive. For dental professionals only.
<b>Supplier</b>	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
<b>Contact Person</b>	<a href="http://www.tokuyama-dental.com/tdc/contact.html">http://www.tokuyama-dental.com/tdc/contact.html</a>
<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>	<p>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></p> <p>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 number: +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></p>

#### 2. HAZARD(S) IDENTIFICATION

<b>Appearance</b>	Clear liquid
<b>Color</b>	Yellow
<b>Odor</b>	Characteristic
<b>GHS Pictogram</b>	



**Signal Word** Danger

#### Hazard Statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

#### 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.
P302+352	IF ON SKIN: Wash with plenty of soap and water.

**TOKUSO REBASE MR. BOND**

P403+233

Store in a well-ventilated place. Keep container tightly closed.

P501

Dispose of contents/container in accordance with local regulations.

**Contains**

11-methacryloxy-1,1-undecanedicarboxylic acid

METHYL METHACRYLATE

**GHS Classification**

Physical and Chemical Hazards Flam. Liq. 2 - H225

Human health

Skin Irrit. 2 - H315; Skin Sens. 1 - H317; STOT SE 3 - H335

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**

May cause irritation to the respiratory system. IF SWALLOWED: Slightly irritating. ( DIGESTIVE SYSTEM. ) This chemical may cause skin/eye irritation. Product has a defatting effect on skin. May cause sensitization by skin contact.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****11-methacryloxy-1,1-undecanedicarboxylic acid****1-5%**

CAS No.: 108362-85-2

EC No.:

GHS Classification

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335

**dibutyl hydroxy toluene****< 1%**

CAS No.: 128-37-0

EC No.: 204-881-4

GHS Classification

Aquatic Chronic 1 - H410

**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

**METHYL METHACRYLATE****80-100%**

CAS No.: 80-62-6

EC No.: 201-297-1

GHS Classification

Flam. Liq. 2 - H225; Skin Irrit. 2 - H315; Skin Sens. 1 - H317; STOT SE 3 - H335

**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.

## TOKUSO REBASE MR. BOND

### 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.

#### Ingestion

Slightly irritating. ( DIGESTIVE SYSTEM. )

#### Skin Contact

Slightly irritating. Product has a defatting effect on skin. May cause sensitization by skin contact.

#### 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) 10°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 under refrigerated conditions at temperatures between 0 to 10°C (32 to 50°F). Keep away from heat, direct sunlight, sparks and open flames.

## TOKUSO REBASE MR. BOND

### 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
dibutyl hydroxy toluene	ACGIH		2 mg/m <sup>3</sup>			A4
METHYL METHACRYLATE	PEL	100 ppm	410 mg/m <sup>3</sup>			
METHYL METHACRYLATE	ACGIH	50 ppm		100 ppm		A4, Sen
COMPONENT						IDLH
METHYL METHACRYLATE						1000 ppm

ACGIH=American Conference of Governmental Industrial Hygienists.

A4: Not Classifiable as a Human Carcinogen.

SEN: Sensitizer.

### 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

<b>Appearance</b>	Clear liquid
<b>Color</b>	Yellow
<b>Odor</b>	Characteristic
<b>Solubility</b>	No information available.
<b>Initial boiling point and boiling range</b>	101°C
<b>Melting point (°C)</b>	Not available.
<b>Relative density</b>	0.945
<b>Vapor density (air=1)</b>	3.45
<b>Vapor pressure</b>	47 20°C
<b>Evaporation rate</b>	Not available.
<b>pH-Value, Conc. Solution</b>	Not available.

## TOKUSO REBASE MR. BOND

### pH-Value, Diluted Solution

Not available.

### Viscosity

Not available.

**Solubility Value (G/100G  
H<sub>2</sub>O@20°C)** 0.1 - 1

### Decomposition temperature (°C)

Not available.

### Odour Threshold, Lower

Not available.

### Odour Threshold, Upper

Not available.

**Flash point** 10°C

### Auto Ignition Temperature (°C)

Not available.

### Flammability Limit - Lower(%)

Not available.

### Flammability Limit - Upper(%)

Not available.

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

Not available.

### Explosive properties

Not available.

### Other Flammability

Not available.

### Oxidising properties

Not available.

## 10. STABILITY AND REACTIVITY

### Reactivity

May polymerise.

### Stability

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.

### Serious eye damage/irritation:

Irritating and may cause redness and pain.

### Respiratory or skin sensitisation:

#### Respiratory sensitisation

Not available.

#### Skin sensitisation

:

## TOKUSO REBASE MR. BOND

May cause sensitization by skin contact.

### Germ cell mutagenicity:

Not available.

### Carcinogenicity:

METHYL METHACRYLATE

EPA: Not likely to be carcinogenic to humans

### **IARC Carcinogenicity**

METHYL METHACRYLATE , Butylated hydroxytoluene (BHT) : IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### **NTP - Carcinogenicity**

Not listed.

### **OSHA - Carcinogenicity**

Not listed.

### Reproductive Toxicity:

Not available.

### Specific target organ toxicity - single exposure:

Irritating to respiratory system.

### Specific target organ toxicity - repeated exposure:

#### **STOT - Repeated exposure**

Not available.

### 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

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

## TOKUSO REBASE MR. BOND

**DOT Hazard Class**

3

**DOT Hazard Label**

Flammable Liquid

**TDG Class**

3

**TDG Label(s)**

3

**IMDG Class**

3

**ICAO Class**

3

**Transport Labels**

**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)**

The following ingredients are listed.

METHYL METHACRYLATE; 1, 000 lbs (454 Kg)

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed.

**SARA 313 Emission Reporting**

The following ingredients are listed.

METHYL METHACRYLATE

**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.

## TOKUSO REBASE MR. BOND

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

The following ingredients are listed.

METHYL METHACRYLATE

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

None of the ingredients are listed.

### Massachusetts "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

### Rhode Island "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

### Minnesota "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

### New Jersey "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

### Pennsylvania "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

### International Inventories

#### EU - EINECS/ELINCS

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

#### Canada – DSL/NDSL

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

#### US - TSCA

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

METHYL METHACRYLATE

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

None of the ingredients are listed.

## 16. OTHER INFORMATION

### Revision Comments

<b>Revision Date</b>	01/05/2018
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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.