

## SAFETY DATA SHEET SILICONE REMOVER

### 1. IDENTIFICATION

<b>Product Name</b>	SILICONE REMOVER
<b>Identified uses</b>	SILICONE REMOVER is an auxiliary agent used to remove the silicone-based materials from the acrylic resin. This product is classified as non medical device because of the limited application with outside of the patient's mouth even though it is used in a dental clinic or dental laboratory.
<b>Supplier</b>	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
<b>Contact Person</b>	<a href="http://www.tokuyama-dental.com/contact.htm">http://www.tokuyama-dental.com/contact.htm</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>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: <a href="mailto:pc@poison.org">pc@poison.org</a> Web site: <a href="http://www.poison.org">http://www.poison.org</a></p> <p>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: <a href="mailto:coadmin@calpoison.org">coadmin@calpoison.org</a> Web site: <a href="http://www.calpoison.org">http://www.calpoison.org</a></p> <p><a href="http://www.who.int/ipcs/poisons/centre/en/">http://www.who.int/ipcs/poisons/centre/en/</a></p>

### 2. HAZARD(S) IDENTIFICATION

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



<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	

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.

## SILICONE REMOVER

P302+352 IF ON SKIN: Wash with plenty of soap and water.  
 P403+233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local regulations.

### Contains

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

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.

#### 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) 421°C  
 Flammability Limit - Lower(%) 1.7

## SILICONE REMOVER

**Flammability Limit - Upper(%)** 12.5  
**Flash point (°C)** 14.5°C

### Extinguishing Media

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

### Specific Hazards

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

### Special Fire Fighting Procedures

Avoid breathing fire vapors.

### Protective Equipment For Fire-Fighters

Wear full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Wear protective clothing as described in Section 8 of this material safety data sheet.

### Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

### Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

### Reference to other sections

For personal protection, see section 8.

## 7. HANDLING AND STORAGE

### Handling

All handling to take place in well-ventilated area.

### Storage

Store in a cool, dark place (0-25°C, 32-77°F). Keep away from heat, direct sunlight, sparks and open flames.

### Storage Class

Flammable liquid storage.

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
METHYL METHACRYLATE	PEL	100 ppm	410 mg/m3			
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.

## SILICONE REMOVER

### 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>	Colourless.
<b>Odor</b>	Characteristic.
<b>Solubility</b>	No information available.
<b>Initial boiling point and boiling range</b>	100°C
<b>Melting point (°C)</b>	Not available.
<b>Relative density</b>	Not available.
<b>Vapor density (air=1)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>pH-Value, Conc. Solution</b>	Not available.
<b>pH-Value, Diluted Solution</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Decomposition temperature (°C)</b>	Not available.
<b>Odour Threshold, Lower</b>	Not available.
<b>Odour Threshold, Upper</b>	Not available.
<b>Flash point</b>	14.5°C
<b>Auto Ignition Temperature (°C)</b>	421°C
<b>Flammability Limit - Lower(%)</b>	1.7
<b>Flammability Limit - Upper(%)</b>	12.5
<b>Partition Coefficient (N-Octanol/Water)</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Other Flammability</b>	Not available.
<b>Oxidising properties</b>	Not available.

## 10. STABILITY AND REACTIVITY

### Reactivity

May polymerise.

### Stability

HIGHLY FLAMMABLE!

Hazardous reactions:

## SILICONE REMOVER

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

:

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 : 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.

## SILICONE REMOVER

### 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)	1247
UN No. (IMDG)	1247
UN No. (ICAO)	1247
DOT Proper Shipping Name	METHYL METHACRYLATE MONOMER, STABILIZED
TDG Proper Shipping Name	METHYL METHACRYLATE MONOMER, STABILIZED
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 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.

## SILICONE REMOVER

### Regulatory References

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

### US Federal Regulations

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

None of the ingredients are listed.

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

All ingredients are listed.

METHYL METHACRYLATE; 1, 000 lbs (454 Kg)

#### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

#### SARA 313 Emission Reporting

All 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.

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

All 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.