1. IDENTIFICATION

Product Name: SILICONE REMOVER
Identified uses: 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.

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
TEL: +81-3-3835-2261

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

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: pc@poison.org
http://www.poison.org

2. HAZARD(S) IDENTIFICATION

Appearance: Clear liquid
Color: Colourless
Odor: Characteristic

GHS Pictogram: ![Flammable Icon]

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.
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

<table>
<thead>
<tr>
<th>METHYL METHACRYLATE</th>
<th>80-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: 80-62-6</td>
<td>EC No.: 201-297-1</td>
</tr>
<tr>
<td>GHS Classification</td>
<td>Flam. Liq. 2 - H225; Skin Irrit. 2 - H315; Skin Sens. 1 - H317; STOT SE 3 - H335</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.

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

<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>METHYL METHACRYLATE</td>
<td>PEL</td>
<td>100 ppm</td>
<td>410 mg/m³</td>
<td></td>
</tr>
<tr>
<td>METHYL METHACRYLATE</td>
<td>ACGIH</td>
<td>50 ppm</td>
<td>100 ppm</td>
<td>A4, Sen</td>
</tr>
</tbody>
</table>

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

<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>Colourless</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 (°C)</td>
<td>100°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>
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<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>
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<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>14.5°C</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>421°C</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>1.7</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>12.5</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
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

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

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/05/2017</td>
<td>2</td>
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</tbody>
</table>

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