SAFETY DATA SHEET
METALTITE

1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>METALTITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identified uses</td>
<td>Dental Cement, a component of kit. For dental professionals only.</td>
</tr>
<tr>
<td>Supplier</td>
<td>Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)</td>
</tr>
<tr>
<td>Contact Person</td>
<td><a href="http://www.tokuyama-dental.com/tdc/contact.html">http://www.tokuyama-dental.com/tdc/contact.html</a></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261</td>
</tr>
</tbody>
</table>

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: cadmin@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 | Slight odor, characteristic |
| GHS Pictogram | |

Signal Word
Danger

Hazard Statements
H225 Highly flammable liquid and vapour.

Precautionary Statements
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protection clothing/eye protection/face protection.
P403+235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local regulations.

GHS Classification
Physical and Chemical Hazards Flam. Liq. 2 - H225
METALTITE

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: 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>6-methacryloyloxyhexyl 2-thiouracil-5-carboxylate(MTU-6)</th>
<th>&lt; 1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: 198623-08-4 EC No.:</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>ETHANOL</th>
<th>80-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: 64-17-5 EC No.: 200-578-6</td>
<td></td>
</tr>
</tbody>
</table>

GHS Classification
Flam. Liq. 2 - H225

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
Irritating. (DIGESTIVE SYSTEM.)

Skin Contact
Irritating. Product has a defatting effect on skin. Prolonged contact may cause redness and irritation.

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) 423°C
Flammability Limit - Lower(%) 3.3
Flammability Limit - Upper(%) 19
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>ETHANOL</td>
<td>ACGIH</td>
<td>1000 ppm</td>
<td>1900 mg/m3</td>
<td>A3</td>
</tr>
<tr>
<td>ETHANOL</td>
<td>PEL</td>
<td>1000 ppm</td>
<td>1900 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH=American Conference of Governmental Industrial Hygienists.
A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans.

Protective Equipment

Engineering Measures
Provide adequate general and local exhaust ventilation.
METALTITE

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>Colourless</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor, characteristic</td>
</tr>
<tr>
<td>Solubility</td>
<td>No information available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>78°C</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.79 15°C</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>7</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>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>423°C</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>3.3</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>19</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
No information available.
METALTITE

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:
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:
IARC Carcinogenicity
Ethanol in alcoholic beverages : IARC Group 1 Carcinogenic 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

Ecotoxicity
No data on possible environmental effects have been found.
Toxicity
No data available.
13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No. (DOT/TDG)</td>
<td>1133</td>
</tr>
<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>
<tr>
<td>Transport Labels</td>
<td></td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

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.
METALTITE

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)
None of the ingredients are listed.
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
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
The following ingredients are listed.
ETHANOL
Rhode Island "Right To Know" List
The following ingredients are listed.
ETHANOL
Minnesota "Right To Know" List
The following ingredients are listed.
ETHANOL
New Jersey "Right To Know" List
The following ingredients are listed.
ETHANOL
Pennsylvania "Right To Know" List
The following ingredients are listed.
ETHANOL

International Inventories
EU - EINECS/ELINCS
The following ingredients are listed.
ETHANOL
Canada – DSL/NDSL
The following ingredients are listed.
ETHANOL
US – TSCA
The following ingredients are listed.
ETHANOL
US – TSCA 12(b) Export Notification
None of the ingredients are listed.

16. OTHER INFORMATION
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.