

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

075217906

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

075216155

REVISION DATE 15/01/2013

## MATERIAL SAFETY DATA SHEET

### METALTITE

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME METALTITE

PRODUCT USE Dental Cement, a component of kit. For dental professionals only.

SUPPLIER Tokuyama Dental America Inc. MANUFACTURER Tokuyama Dental Corporation  
Tel: (877) 378 3548 (Toll-Free) 38-9, Taitou 1-chome, Taitou-ku,  
Tokyo, Japan  
TEL: +81-3-3835-7201

CONTACT PERSON <http://www.tokuyama-dental.com/contact.htm>

EMERGENCY TELEPHONE

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: [pc@poison.org](mailto:pc@poison.org)  
Web site: <http://www.poison.org>

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: [coadmin@calpoison.org](mailto:coadmin@calpoison.org)  
Web site: <http://www.calpoison.org>

<http://www.who.int/ipcs/poisons/centre/en/>

#### 2 HAZARDS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

##### 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.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
6-methacryloyloxyhexyl-2-thiouracil-5-carboxylate (MTU-6)		198623-08-4	< 1%
ETHANOL	200-578-6	64-17-5	99.6%

#### 4 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.

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**METALTITE****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.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

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

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapors.

**SPECIFIC HAZARDS**

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

**PROTECTIVE MEASURES IN FIRE**

Wear full protective clothing.

AUTO IGNITION TEMPERATURE 423°C  
(°C)

FLAMMABILITY LIMIT - LOWER(%) 3.3

FLAMMABILITY LIMIT - UPPER(%) 19

FLASH POINT (°C) 14°C

**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.

**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.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
ETHANOL	PEL	1000 ppm	1900 mg/m3			
COMPONENT						IDLH
ETHANOL						3300 ppm

**PROTECTIVE EQUIPMENT**

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**METALTITE****ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**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 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

APPEARANCE	Clear liquid
COLOR	Colorless
ODOR	Slight odor , Characteristic
BOILING POINT (°C)	78°C
RELATIVE DENSITY	0.79 15°C
pH-VALUE, CONC. SOLUTION	7
FLASH POINT (°C)	14°C

## 10 STABILITY AND REACTIVITY

**STABILITY**

HIGHLY FLAMMABLE!

**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

**TOXICOLOGICAL INFORMATION**

No data on possible toxic effects have been found.

## 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

No data on possible environmental effects have been found.

## 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

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

## 14 TRANSPORT INFORMATION

REVISION DATE 15/01/2013

**METALTITE**

DOT PROPER SHIPPING NAME ADHESIVES, CONTAINING A FLAMMABLE LIQUID  
 TDG SHIPPING NAME ADHESIVES, CONTAINING A FLAMMABLE LIQUID  
 IDENTIFICATION No. 1133  
 TUNNEL RESTRICTION CODE (D/E)  
 CEFIC TEC(R) NO. 30GF1-I+II, 30GF1-sp  
 DOT HAZARD CLASS 3  
 DOT PACKING GROUP II  
 U.S DOT HAZARD LABEL Flammable Liquid  
 UN NO. SEA 1133  
 IMDG CLASS 3  
 IMDG PACK GR. II  
 EMS F-E, S-D  
 UN NO. AIR 1133  
 ICAO CLASS 3  
 AIR PACK GR. II  
 TDG CLASS 3  
 TDG LABEL(S) 3  
 TDG PACKING GROUP II

**15 REGULATORY INFORMATION**

## INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
ETHANOL	No.	No.	EINECS					

COMPONENT	TSCA 12(b) Export Notification
ETHANOL	No.

## US FEDERAL REGULATIONS

COMPONENT	SARA 302-TPQ	CERCLA-RQ	SARA 313
ETHANOL	Not Listed	Not Listed	No.

## CLEAN AIR ACT

COMPONENT	CAA Accidental Release Prevention
ETHANOL	Not Listed

## US STATE REGULATIONS

COMPONENT	CAS	CA	FL	MA	MN	NJ	PA	RI
ETHANOL	64-17-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

## REGULATORY REFERENCES

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

**16 OTHER INFORMATION**

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## METALTITE

### 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.

Revision Date 08/05/2017

Revision 2

## SAFETY DATA SHEET

### METALTITE

#### 1. IDENTIFICATION

<b>Product Name</b>	METALTITE
<b>Identified uses</b>	Dental Cement, a component of kit. 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>	Colourless
<b>Odor</b>	Slight odor, characteristic
<b>GHS Pictogram</b>	



<b>Signal Word</b>	Danger	
<b>Hazard Statements</b>	H225	Highly flammable liquid and vapour.
<b>Precautionary Statements</b>	P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
	P233	Keep container tightly closed.
	P280	Wear protective gloves/protective 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.
<b>GHS Classification</b>	Physical and Chemical Hazards	Flam. Liq. 2 - H225

**METALTITE**

Human health  
Environment

Not classified.  
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: 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**

<b>6-methacryloyloxyhexyl 2-thiouracil-5-carboxylate(MTU-6)</b>	<b>&lt; 1%</b>
<b>CAS No.: 198623-08-4</b>	<b>EC No.:</b>
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335	
<b>ETHANOL</b>	<b>80-100%</b>
<b>CAS No.: 64-17-5</b>	<b>EC No.: 200-578-6</b>
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.



## METALTITE

### 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

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
ETHANOL	ACGIH			1000 ppm		A3
ETHANOL	PEL	1000 ppm	1900 mg/m3			
COMPONENT						IDLH
ETHANOL						3300 ppm

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

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

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.

## METALTITE

### 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
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

## METALTITE

### 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.

#### **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

## METALTITE

### Revision Comments

<b>Revision Date</b>	08/05/2017
Revision	2

### 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.