

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. Tel: (877) 378 3548 (Toll-Free)
MANUFACTURER	Tokuyama Dental Corporation 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 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 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.

REVISION DATE 15/01/2013

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

REVISION DATE 15/01/2013

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

REVISION DATE

15/01/2013

REVISION DATE 15/01/2013

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.

SAFETY DATA SHEET

METALTITE

1. IDENTIFICATION

Product Name	METALTITE
Identified uses	Dental Cement, a component of kit. For dental professionals only.
Supplier	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free)
Contact Person	http://www.tokuyama-dental.com/contact.htm
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo 110-0016, Japan TEL: +81-3-3835-2261
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 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 Web site: http://www.calpoison.org http://www.who.int/ipcs/poisons/centre/en/

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/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.
GHS Classification	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

6-methacryloyloxyhexyl 2-thiouracil-5-carboxylate(MTU-6)

< 1%

CAS No.: 198623-08-4

EC No.:

GHS Classification

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

ETHANOL

80-100%

CAS No.: 64-17-5

EC No.: 200-578-6

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

Appearance	Clear liquid.
Color	Colourless.
Odor	Slight odor. , Characteristic.
Solubility	No information available.
Initial boiling point and boiling range	78°C
Melting point (°C)	Not available.
Relative density	0.79 15°C
Vapor density (air=1)	Not available.
Vapor pressure	Not available.
Evaporation rate	Not available.
pH-Value, Conc. Solution	7
pH-Value, Diluted Solution	Not available.
Viscosity	Not available.
Decomposition temperature (°C)	Not available.
Odour Threshold, Lower	Not available.
Odour Threshold, Upper	Not available.
Flash point	14°C
Auto Ignition Temperature (°C)	423°C
Flammability Limit - Lower(%)	3.3
Flammability Limit - Upper(%)	19
Partition Coefficient (N-Octanol/Water)	Not available.
Explosive properties	Not available.
Other Flammability	Not available.
Oxidising properties	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/NDL

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

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.