SAFETY DATA SHEETS

This SDS packet was issued with item:

075187729

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).

075185285 075185467 075187018 075187026 075187034 075187042 075187059 075187067 075187075 075187083 075187091 075187109 075187117 075187125 075187133 075187141 075187158 075187166 075187174 075187182 075187190 075187208 075187216 075187307 075187604 075187612 075187620 075187638 075187646 075187653 075187661 075187679 075187687 075187695 075187703 075187711 075187737 075187745 075187752 075187760 075187778 075187786 075187794 075187802 075216510

MATERIAL SAFETY DATA SHEET ESTELITE FLOW QUICK High Flow

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

PRODUCT NAME

ESTELITE FLOW QUICK High Flow

PRODUCT USE

Resin-based Dental Restorative Material. 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 Telephona: +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

INGESTION

Slightly imitating. DIGESTIVE SYSTEM.

SKIN CONTACT

Slightly irritating. May cause sensitization by skin contact.

EYE CONTACT

Slightly irritating.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name Name	EC No.	CAS-No.	Content %
bisphenol A di(2-hydroxy propoxy) dimethacrylate	216-367-7	1565-94-2	10-30%
camphorquinone	233-814-1	10373-78-1	< 1%
dibutyl hydroxy toluene	204-881-4	128-37-0	< 1%
MEQUINOL	205-769-8	150-76-5	< 1%
triethylene glycol dimethacrylate	203-652-6	109-16-0	10-30%

4 FIRST-AID MEASURES

GENERAL INFORMATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

ESTELITE FLOW QUICK High Flow

INHALATION

Move the exposed person to fresh air at once.

INGESTION

Try to induce vomiting. 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.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

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,

Tengana da

7 HANDLING AND STORAGE

HANDLING

All handling to take place in well-ventilated area.

STORAGE

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

STORAGE CLASS

Chemical storage,

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT





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.

COMPONENT

MEQUINOL

ESTELITE FLOW QUICK High Flow

9 PHYSICAL AND CHEMICAL PROPERTIES **APPEARANCE** Paste COLOR Yellow white RELATIVE DENSITY 1.8 pH-VALUE, CONC. SOLUTION 10 STABILITY AND REACTIVITY STABILITY Stable under normal temperature conditions and recommended use. 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 TRANSPORT NOTES Not regulated. 15 REGULATORY INFORMATION **INVENTORIES** COMPONENT CAN US AUS JAP KOR CHN PHLP MEQUINOL No. No. **EINECS** COMPONENT TSCA 12(b) Export Notification MEQUINOL No. US FEDERAL REGULATIONS COMPONENT SARA 302-TPQ CERCLA-RQ **SARA 313** MEQUINOL Not Listed Not Listed No. CLEAN AIR ACT

CAA Accidental Release Prevention

Not Listed

ESTELITE FLOW QUICK High Flow

US STATE REGULATIONS

	CAS	CA	FL	МА	MN	NJ	PA	RI
MEQUINOL	150-76-5	Not Listed						

REGULATORY REFERENCES

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

16 OTHER INFORMATION

REVISION DATE

15/01/2013

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 ESTELITE Σ QUICK

1. IDENTIFICATION

Contact Person

Product Name ESTELITE Σ QUICK

Identified uses Resin-based Dental Restorative Material. For dental professionals only.

Supplier Tokuyama Dental America Inc.

Tel: (877) 378 3548 (Toll-Free) 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 Paste

Color Yellow white

Odor No information available.

GHS Pictogram



Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction.

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local regulations.

Contains bisphenol A di(2-hydroxy propoxy) dimethacrylate

triethylene glycol dimethacrylate

GHS Classification

Physical and Chemical Hazards Not classified.

Human health Skin Sens. 1 - H317

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

IF SWALLOWED: Slightly irritating. (DIGESTIVE SYSTEM.) May be slightly irritating to skin and eyes. May cause sensitization by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

bisphenol A di(2-hydroxy propoxy) dimethacrylate

10-30%

CAS No.: 1565-94-2 EC No.: 216-367-7

GHS Classification

Skin Sens. 1 - H317; Aquatic Chronic 3 - H412

camphorquinone < 1%

CAS No.: 10373-78-1 EC No.: 233-814-1

GHS Classification Not classified.

dibutyl hydroxy toluene <1%

CAS No.: 128-37-0 EC No.: 204-881-4

GHS Classification Aquatic Chronic 1 - H410

MEQUINOL <1%

CAS No.: 150-76-5 EC No.: 205-769-8

GHS Classification

Acute Tox. 4 - H302; Eye Irrit. 2 - H319; Skin Sens. 1 - H317

triethylene glycol dimethacrylate 5-10%

CAS No.: 109-16-0 EC No.: 203-652-6

GHS Classification

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317

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

Try to induce vomiting. 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

Ingestion

Slightly irritating. (DIGESTIVE SYSTEM.)

Skin Contact

Slightly irritating. May cause sensitization by skin contact.

Eye Contact

Slightly Irritating.

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)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Flash point (°C)

Not available.

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.

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

Chemical 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
dibutyl hydroxy toluene	ACGIH		2 mg/m3			A4

ACGIH=American Conference of Governmental Industrial Hygienists.

A4: Not Classifiable as a Human Carcinogen.

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.

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 Paste

Color Yellow white

OdorNo information available.SolubilityNo information available.

Initial boiling point and boiling range

Not available.

Melting point (°C)

Not available.

Relative density 1.9

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

Not available.

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Partition Coefficient

(N-Octanol/Water)

Not available.

Explosive properties

Not available.

Other Flammability

Not available.

Oxidising properties

Not available.

10. STABILITY AND REACTIVITY

Reactivity

May polymerise.

Stability

Stable under normal temperature conditions and recommended use.

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:

Slightly irritating.

Serious eye damage/irritation:

Slightly Irritating.

Respiratory or skin sensitisation:

Respiratory sensitisation

Not available.

Skin sensitisation

May cause sensitization by skin contact.

Germ cell mutagenicity:

Not available.

Carcinogenicity:

IARC Carcinogenicity

Butylated hydroxytoluene (BHT): 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:

STOT - Single exposure

Not available.

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.

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

General Not regulated.

 UN No. (DOT/TDG)
 N/A

 UN No. (IMDG)
 N/A

 UN No. (ICAO)
 N/A

DOT Proper Shipping Name Not applicable.

DOT Hazard ClassNo classification noted.

DOT Hazard Label

No DOT label requirement noted

IMDG Class Not applicable.

ICAO Class Not applicable.

Transport Labels

No transport warning sign required.

DOT Pack Group Not applicable.

IMDG Pack Group Not applicable.

Air Pack Group Not applicable.

Environmentally Hazardous Substance/Marine Pollutant

No.

Special precautions for user Not applicable.

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.

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

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)

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.

dibutyl hydroxy toluene

MEQUINOL

Rhode Island "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

Minnesota "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene

MEQUINOL

New Jersey "Right To Know" List

The following ingredients are listed.

dibutyl hydroxy toluene MEQUINOL

Pennsylvania "Right To Know" List

The following ingredients are listed.
dibutyl hydroxy toluene
MEQUINOL

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.