SAFETY DATA SHEETS

This SDS packet was issued with item:

075187711

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 075187729 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

Product identifier

Product name ESTELITE Σ QUICK

Recommended use of the chemical and restrictions on use

Application Resin-based Dental Restorative Material. For dental professionals only.

Details of the supplier of the safety data sheet

Supplier Tokuyama Dental America, Inc.

740 Garden View CT., Suite 200 Encinitas,

CA 92024 U.S.A.

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

Tel: (760)942-7211 Fax: (760)942-7212

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 FAX: +81-3-3835-2265

Emergency telephone number

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 numer: +1 202 362 8377 E-mail address: pc@poison.org

http://www.poison.org

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

Environmental hazards Not Classified

Label elements

ESTELITE Σ QUICK

Pictogram



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Precautionary statements P261 Avoid breathing dust.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 If on skin: Wash with plenty of water.

P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/ container in accordance with local regulations.

Contains 2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-

HYDROXY-3,1-PROPANEDIYL)] ESTER, TRIETHYLENE GLYCOL DIMETHACRYLATE, p-

METHOXYPHENOL

3. Composition/information on ingredients

Mixtures

2-PROPENOIC ACID, 2-METHYL-, (1-

METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-

HYDROXY-3,1-PROPANEDIYL)] ESTER

CAS number: 1565-94-2

TRIETHYLENE GLYCOL DIMETHACRYLATE

5-10%

10-30%

CAS number: 109-16-0

2,6-DI-tert-BUTYL-p-CRESOL

<1%

CAS number: 128-37-0 M factor (Chronic) = 1

p-METHOXYPHENOL

<1%

CAS number: 150-76-5

TITANIUM DIOXIDE < 0.1%

CAS number: 13463-67-7

4. First-aid measures

Description of first aid measures

General information Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once.

Ingestion Try to induce vomiting. Get medical attention if any discomfort continues.

Skin Contact Wash skin thoroughly with soap and water.

ESTELITE Σ QUICK

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. Get

medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

Skin contact Allergic rash.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam. Carbon dioxide or dry powder.

Special hazards arising from the substance or mixture

Specific hazards When heated and in case of fire, irritating vapors/gases may be formed.

Hazardous combustion

products

No known hazardous decomposition products.

Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapors.

Special protective equipment

for firefighters

Wear chemical protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Environmental precautions No specific recommendations.

Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near

spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into

containers.

Reference to other sections For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions All handling should only take place in well-ventilated areas.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Store at temperatures between 0°C/25°F and

32°C/77°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Avoid exposure to high temperatures or direct sunlight.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

ESTELITE Σ QUICK

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

2,6-DI-tert-BUTYL-p-CRESOL

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor A4, A4, A4

p-METHOXYPHENOL

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m3 Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

OSHA = Occupational Safety and Health Administration.

Exposure controls

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles.

Hand protection Wear protective gloves.

Other skin and body

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 and 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.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Paste

Color Yellow-white Odor Not available. Odor threshold Not available.

pН pH (concentrated solution): 7

Melting point Not available. Initial boiling point and range Not available.

ESTELITE Σ QUICK

Flash point Not available.

Evaporation rate Not available.

Evaporation factor Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or

explosive limits

Not applicable.

Other flammability Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.9

Solubility(ies) Not available.

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity Not available.

Explosive properties Not explosive.

Oxidizing properties Not available.

Other information Not available.

10. Stability and reactivity

Reactivity May polymerize. See the other subsections of this section for further details.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Not known.

Conditions to avoid Keep away from heat, sparks and open flame. Protect against direct sunlight.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition

products

Heating may generate the following products: Toxic gases or vapors.

11. Toxicological information

Information on toxicological effects

Routes of exposure See section 4. Skin , Eyes , Ingestion , Inhalation

Acute toxicity - oral

Notes (oral LD₅₀) Not available.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not available.

Acute toxicity - inhalation

ESTELITE Σ QUICK

Notes (inhalation LC₅₀) Not available.

Skin corrosion/irritation

Skin corrosion/irritation Not available.

Animal data Not available.

Serious eye damage/irritation

Serious eye damage/irritation Not available.

Respiratory sensitization

Respiratory sensitization Not available.

Skin sensitization

Skin sensitization Sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro

Not available.

Genotoxicity - in vivo

Not available.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity Some of the ingredients are listed or exempt.

NTP carcinogenicity Some of the ingredients are listed or exempt.

OSHA Carcinogenicity None of the ingredients are listed.

Reproductive toxicity

Reproductive toxicity - fertility Not available.

Reproductive toxicity -

development

Not available.

Not available.

Specific target organ toxicity - single exposure

STOT - single exposure Not available.

Specific target organ toxicity - repeated exposure

Aspiration hazard

STOT - repeated exposure

Aspiration hazard Not available.

Toxicological information on ingredients.

2,6-DI-tert-BUTYL-p-CRESOL

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

OSHA Carcinogenicity Not listed.

TITANIUM DIOXIDE

Acute toxicity - inhalation

ATE inhalation 1.5

(dusts/mists mg/l)

ESTELITE Σ QUICK

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

OSHA Carcinogenicity Not listed.

12. Ecological Information

Toxicity No data available.

Not available. Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

Not available.

Acute toxicity - aquatic plants Not available.

Chronic toxicity - fish early life Not available.

stage

Short term toxicity - embryo

and sac fry stages

Not available.

Chronic toxicity - aquatic

invertebrates

Not available.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Mobility in soil

Mobility No information available.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DOT).

UN Number

Not applicable.

UN No. (IMDG) N/A

UN No. (ICAO) N/A

UN No. (DOT) N/A

ESTELITE Σ QUICK

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

IMDG Class Not applicable.

ICAO class/division Not applicable.

Transport labels

No transport warning sign required.

Packing group

Not applicable.

IMDG packing group Not applicable.

ICAO packing group Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

Regulatory Status 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 (311/312) Hazard Categories

Acute

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

TITANIUM DIOXIDE

California Directors List of Hazardous Substances

2,6-DI-tert-BUTYL-p-CRESOL

p-METHOXYPHENOL

Massachusetts "Right To Know" List

2,6-DI-tert-BUTYL-p-CRESOL

p-METHOXYPHENOL

TITANIUM DIOXIDE

ESTELITE Σ QUICK

Rhode Island "Right To Know" List

2,6-DI-tert-BUTYL-p-CRESOL p-METHOXYPHENOL TITANIUM DIOXIDE

Minnesota "Right To Know" List

2,6-DI-tert-BUTYL-p-CRESOL p-METHOXYPHENOL TITANIUM DIOXIDE

New Jersey "Right To Know" List

2,6-DI-tert-BUTYL-p-CRESOL p-METHOXYPHENOL TITANIUM DIOXIDE

Pennsylvania "Right To Know" List

2,6-DI-tert-BUTYL-p-CRESOL p-METHOXYPHENOL TITANIUM DIOXIDE

16. Other information

Training advice Ensure operatives are trained to minimize exposure. Only trained personnel should use this

material.

Revision comments Revised formulation.

Revision date 7/20/2017

Revision 2

Hazard statements in full H317 May cause an allergic skin reaction.

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 replied 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.