SAFETY DATA SHEET ESTELITE UNIVERSAL FLOW (Medium, Super Low, High)

1. Identification

Product identifier

Product name ESTELITE UNIVERSAL FLOW (Medium, Super Low, High)

Recommended use of the chemical and restrictions on use

Restriction on use 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: +1-760-942-7211 Fax:+1-760-942-7212

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 Tokuyama Dental America, Inc. Tel: +1-760-942-7211

Days and hours of operation: 9:00-17:00(PST/PDT), Weekdays, except national holidays in

US.

Language: English only.

2. Hazard identification

Classification of the substance or mixture

WHMIS Regulatory Status This product has been classified according to the hazard criteria of the Hazardous Product

Regulations and the SDS contains all required information.

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 : Eye Irrit. 2A - H319 : Skin Sens. 1 - H317 : STOT SE 3 - H335

Environmental hazards Not Classified

Label elements

Pictogram



Signal word Warning

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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Precautionary statements P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P261 Avoid breathing vapour/ spray.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

Supplemental label information

AT(o) 0.05 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Contains

POLY(OXY-1,2-ETHANEDIYL), α,α' -[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[ω -[(2-METHYL-1-OXO-2-PROPENYL)OXY]-, 2-PROPENOIC ACID, 2-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER, 2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER, PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-4-METHYL-

3. Composition/information on ingredients

Mixtures

POLY(OXY-1,2-ETHANEDIYL), α,α' -[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[ω -[(2-METHYL-1-OXO-2-PROPENYL)OXY]-

CAS number: 41637-38-1

2-PROPENOIC ACID, 2-METHYL-, 1,2-ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER

CAS number: 109-16-0

2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER

CAS number: 1565-94-2

PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-4-METHYL-

CAS number: 2440-22-4

PHENOL, 4-METHOXY- <0.1%

CAS number: 150-76-5

0-30%

5-20%

0-30%

<1%

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TITANIUM DIOXIDE <0.1%

CAS number: 13463-67-7

2,6-DI-t-BUTYL-4-METHYLPHENOL

<0.1%

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

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. Get medical attention if any discomfort continues.

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

Skin contact Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. 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

Inhalation May cause respiratory irritation.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Indication of any 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 foam, carbon dioxide, dry powder or water fog.

Specific hazards arising from the hazardous product

Specific hazards Heating may generate the following products: Toxic gases or vapours.

Hazardous combustion Thermal decomposition or combustion products may include the following substances:

products Carbon monoxide (CO). Carbon dioxide (CO2). Toxic gases or vapours.

Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours.

Special protective equipment Wear chemical protective suit.

for firefighters

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 Avoid the spillage or runoff entering drains, sewers or watercourses.

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Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation. Collect and place in suitable waste disposal containers and seal

securely.

Reference to other sections

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

7. Handling and storage

Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet. All handling

should only take place in well-ventilated areas. Avoid contact with skin, eyes and clothing.

Avoid breathing vapour/spray.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. 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. Take off contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place. Keep away from heat,

sparks and open flame. Avoid exposure to high temperatures or direct sunlight.

Specific end use(s)

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

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

PHENOL, 4-METHOXY-

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

TITANIUM DIOXIDE

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

A4

2,6-DI-t-BUTYL-4-METHYLPHENOL

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

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

Hand protection Wear protective gloves.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Do not eat, drink or smoke when using this product. 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. Take off

contaminated clothing and wash it before reuse.

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Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Paste

Colour Yellow - white

Odour Odourless

Odour threshold Not available.

pH Not applicable.

Melting point Not available.

Initial boiling point and range Not available.

Flash point Not applicable.

Evaporation rate Not available.

Evaporation factor Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or

explosive limits

Not applicable.

Other flammability

Vapour pressure

Not available.

Vapour density

Not available.

Relative density 1.7

Solubility(ies)

Partition coefficient

Not available.

Auto-ignition temperature

Not available.

Decomposition Temperature

Not available.

Viscosity

Not available.

Explosive properties

Not available.

Oxidising properties

Not available.

Other information Not available.

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product. See the other subsections

of this section for further details.

Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Not known.

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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 vapours.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Not available.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not available.

Skin corrosion/irritation

Skin corrosion/irritation Skin Irrit. 2 - H315 Causes skin irritation.

Animal data Not available.

Serious eye damage/irritation

Serious eye damage/irritation Eye Irrit. 2 - H319 Causes serious eye irritation.

Respiratory sensitization

Respiratory sensitization Not available.

Skin sensitization

Skin sensitization Skin Sens. 1 - H317 May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro

Not available.

Genotoxicity - in vivo

Not available.

Carcinogenicity

Carcinogenicity Not available.

IARC carcinogenicity Some of the ingredients are listed or exempt.

NTP carcinogenicity Some of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Not available.

Reproductive toxicity -

Not available.

development

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H335 May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

Aspiration hazard

Aspiration hazard Not available.

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Toxicological information on ingredients

TITANIUM DIOXIDE

Acute toxicity - inhalation

ATE inhalation 1.5

(dusts/mists mg/l)

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

OSHA Carcinogenicity Not listed.

2,6-DI-t-BUTYL-4-METHYLPHENOL

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.

12. Ecological Information

Acute aquatic toxicity

Acute toxicity - fish Not available.

Acute toxicity - aquatic

invertebrates

Not available.

Acute toxicity - aquatic plants Not available.

Ecological information on ingredients

2,6-DI-t-BUTYL-4-METHYLPHENOL

Chronic aquatic toxicity

M factor (chronic) 1

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bioaccumulative 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.

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14. Transport information

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

(IMDG, IATA, TDG).

UN number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name

(International)

Not applicable.

Transport hazard class(es)

Transport Labels (International)

Not applicable.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally hazardous substance/marine pollutant

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 References According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as

amended) and the requirements of the Hazardous Product Regulations (HPR)

Hazardous Products Regulations - SOR/2015-17. Transportation of Dangerous Goods

Regulations -SOR/2015-100.

16. Other information

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

material.

Revision comments This is first issue.

Revision date 30/09/2017

Revision 1

Hazard statements in full H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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.