# SAFETY DATA SHEET ESTECEM II PASTE A/B

# 1. Identification

Product identifier

Product name ESTECEM II PASTE A/B

Recommended use of the chemical and restrictions on use

**Restriction on use** Adhesive resin cement. 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 Carc. 2 - H351

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. H351 Suspected of causing cancer.

#### **ESTECEM II PASTE A/B**

#### Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapors.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Removecontact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/ attention.

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.

P405 Store locked up.

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

#### 3. Composition/information on ingredients

# **Mixtures**

POLY(OXY-1,2-ETHANEDIYL),  $\alpha,\alpha'$ -[(1-METHYLETHYLIDENE)DI-4,1-PHENYLENE]BIS[ $\omega$ -[(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

**TITANIUM DIOXIDE** 

CAS number: 13463-67-7

PEROXIDE, DIBENZOYL

CAS number: 94-36-0

2,2'-[(4-METHYLPHENYL)IMINO]BISETHANOL

CAS number: 3077-12-1

BENZENAMINE, N,N,4-TRIMETHYL-

CAS number: 99-97-8

#### 4. First-aid measures

# Description of first aid measures

10-30%

10-30%

1-5%

1-07

<1%

<1%

<1%

# **ESTECEM II PASTE A/B**

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

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any

discomfort continues.

Skin contact Wash skin thoroughly with 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 and get medical attention.

### Most important symptoms and effects, both acute and delayed

**Skin contact** Skin irritation. Allergic rash.

**Eye contact** May cause severe 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 alcohol-resistant foam, carbon dioxide, dry powder or water fog.

#### Specific hazards arising from the hazardous product

**Specific hazards** In case of fire, toxic gases may be formed.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours.

#### Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Move containers from fire area if it can be done without risk. Containers close to fire should be removed or cooled with water. No smoking, sparks, flames or other

sources of ignition near spillage.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

# 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. No smoking,

sparks, flames or other sources of ignition near spillage.

**Environmental precautions** 

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

# 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. Keep combustible materials away from spillage. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff

entering drains, sewers or watercourses. Use non-sparking tools.

# Reference to other sections

# **ESTECEM II PASTE A/B**

**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. Keep away from heat, sparks and

open flame. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

Take any precaution to avoid mixing with combustibles and reducing agents.

Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 0°C/32°F and 10°C/50°F. Keep away from heat, hot surfaces,

sparks, open flames and other ignition sources. No smoking. Avoid exposure to high

temperatures or direct sunlight. Protect from light.

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

# **TITANIUM DIOXIDE**

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m<sup>3</sup>

A4

#### PEROXIDE, DIBENZOYL

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

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Ingredient comments

Titanium dioxide (TiO2) is kneaded in the product, it does not exist as respirable particles.

Exposure controls

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure

limits for the product or ingredients.

**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

Use engineering controls to reduce air contamination to permissible exposure level. Provide

eyewash station and safety shower. Do not smoke in work area. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the

toilet. 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

Colour Clear, White to Brown

# **ESTECEM II PASTE A/B**

Odour Characteristic

Odour threshold Not available.

**pH** Not available.

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 available.

Vapour pressure Not available.

Vapour density Not available.

Relative density Not determined.

Solubility(ies) Not available.

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.

**Stability** Stable under the prescribed storage conditions.

Possibility of hazardous

reactions

Not known.

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

Materials to avoid Flammable/combustible materials. Strong reducing agents.

Hazardous decomposition

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Carbon monoxide (CO). Carbon dioxide (CO2).

# 11. Toxicological information

# Information on toxicological effects

Routes of exposure Skin , Eyes , Ingestion , Inhalation , Health effects: See section 4. Titanium dioxide (TiO2) is

kneaded in the product, it does not exist as respirable particles.

# **ESTECEM II PASTE A/B**

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Not available.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Not available.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Not available.

Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

Animal data Not available.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitization

Respiratory sensitization Not available.

Skin sensitization

**Skin sensitization** May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro

Not available.

Genotoxicity - in vivo

Not available.

Carcinogenicity

**Carcinogenicity** Suspected of causing cancer.

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 -

Not available.

development

Specific target organ toxicity - single exposure

STOT - single exposure

Not available.

**G**....**,** 

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not available.

Aspiration hazard

Aspiration hazard Not available.

Toxicological information on ingredients

TITANIUM DIOXIDE

Acute toxicity - inhalation

ATE inhalation 1.5

(dusts/mists mg/l)

Carcinogenicity

# **ESTECEM II PASTE A/B**

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

OSHA Carcinogenicity Not listed.

PEROXIDE, DIBENZOYL

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

**Toxicity** Not available.

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.

# 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 No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name

(International)

Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels (International)

Not applicable.

#### **ESTECEM II PASTE A/B**

# **DOT transport label**

Packing group

Packing group (International) Not applicable.

DOT packing group Not applicable.

**Environmental hazards** 

Environmentally hazardous substance/marine pollutant

No.

Special precautions for user

DOT reportable quantity Not applicable. **DOT TIH Zone** 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.

20/03/2018 Revision date

Revision

Hazard statements in full H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H351 Suspected of causing cancer.

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.