SAFETY DATA SHEETS

This SDS packet was issued with item:

071076124

N/A

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

Application 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: (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 Irrit . 2 - H 315: Eye Irrit . 2A - H319: Skin Sens. 1 - H317: Carc.2 - H351

Environmental hazards Not Classified

Label elements

ESTECEM II PASTE A / B

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.

Precautionary statements P:

P261 Avoid breathing vapors.

P264 Wash contaminated skin thoroughly after handling.

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.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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

Contains POLY(OXY-1,2-ETHANEDIYL),.alpha.,.alpha.'-[(1-METHYLETHYLIDENE)DI-4,1-

PHENYLENE]BIS[.omega.-[(2-METHYL-1-OXO-2-PROPENYL)OXY]-, TRIETHYLENE

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

 $\label{eq:methyleneoxy} $$\operatorname{METHYLETHYLIDENE}$ BIS[4,1-PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)]$$ ESTER, BENZOYL PEROXIDE, ETHANOL, 2,2'-[(4-METHYLPHENYL)IMINO]BIS-$

Other hazards

Hazards not otherwise classified (HNOC)

Not applicable.

3. Composition/information on ingredients

Mixtures

BISPHENOL A POLYETHOXY DIMETHACRYLATE

10-30%

CAS number: 41637-38-1

TRIETHYLENE GLYCOL DIMETHACRYLATE

10-30%

1-5%

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 <1%

CAS number: 13463-67-7

ESTECEM II PASTE A / B

BENZOYL PEROXIDE <1%

CAS number: 94-36-0

p-TOLYL DIETHANOLAMINE <1%

CAS number: 3077-12-1

N,N-DIMETHYL-p-TOLUIDINE <1%

CAS number: 99-97-8

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 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 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 Skin irritation. Allergic rash.

Eye contact May cause severe eye irritation.

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 alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Special hazards arising from the substance or mixture

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

vapors.

Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapors. Keep up-wind to avoid fumes. 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

ESTECEM II PASTE A / B

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 only non-sparking tools.

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 Keep away from heat, direct sunlight, sparks and open flames. Store in a cool, dark place (0 -

10 °C, 32 - 50 °F).

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

TITANIUM DIOXIDE

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

Α4

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

BENZOYL PEROXIDE

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

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Appropriate engineering

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

controls

Wear appropriate clothing to prevent any possibility of skin contact.

ESTECEM II PASTE A / B

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 hands 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

Color Clear, white to brown

Odor Characteristic

Odor 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.

Vapor pressure Not available.

Vapor 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.

Oxidizing 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.

ESTECEM II PASTE A / B

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

vapors. 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.

Notes (oral LD₅₀) Not available.

Notes (dermal LD₅₀) Not available.

Notes (inhalation LC₅₀) 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 vitroNot 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.

OSHA Carcinogenicity None of the ingredients are listed.

Reproductive toxicity

Reproductive toxicity -

Reproductive toxicity - fertility Not available.

development

Not available.

Specific target organ toxicity - single exposure
STOT - single exposure
Not available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

ESTECEM II PASTE A / B

Aspiration hazard

Aspiration hazard Not available.

Toxicological information on ingredients.

TITANIUM DIOXIDE

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

OSHA Carcinogenicity Not listed.

BENZOYL PEROXIDE

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.

N,N-DIMETHYL-p-TOLUIDINE

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

12. Ecological Information

Toxicity

Acute toxicity - fish Not available.

Acute toxicity - aquatic

invertebrates

Not available.

Acute toxicity - aquatic plants 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.

Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects Not known.

ESTECEM II PASTE A / B

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 proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Avoid exposure to high temperatures or direct sunlight. Keep away from heat, sparks and open flame. Protect against physical damage and/or friction. Take appropriate measures to prevent load shifting. Keep away from food, drink and animal feeding stuffs.

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).

International Regulations

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

TITANIUM DIOXIDE

Not listed.

BENZOYL PEROXIDE

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

TITANIUM DIOXIDE

Not listed.

ESTECEM II PASTE A / B

BENZOYL PEROXIDE

Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

TITANIUM DIOXIDE

Not listed.

BENZOYL PEROXIDE

Not listed.

SARA 313 Emission Reporting

TITANIUM DIOXIDE

Not listed.

BENZOYL PEROXIDE

1.0 %

CAA Accidental Release Prevention

TITANIUM DIOXIDE

Not listed.

BENZOYL PEROXIDE

Not listed.

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

Acute

OSHA Highly Hazardous Chemicals

TITANIUM DIOXIDE

Not listed.

BENZOYL PEROXIDE

Threshold Quantity: 7500 lbs

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

TITANIUM DIOXIDE (air borne, unbound particles of respirable size)

Known to the State of California to cause cancer.

BENZOYL PEROXIDE

Not listed.

N,N-DIMETHYL-p-TOLUIDINE

Known to the State of California to cause cancer.

California Air Toxics "Hot Spots" (A-I)

TITANIUM DIOXIDE

Not listed.

ESTECEM II PASTE A / B

BENZOYL PEROXIDE

Present.

California Directors List of Hazardous Substances

TITANIUM DIOXIDE

Not listed.

BENZOYL PEROXIDE

Present.

Massachusetts "Right To Know" List

TITANIUM DIOXIDE

Present.

BENZOYL PEROXIDE

Present.

Rhode Island "Right To Know" List

TITANIUM DIOXIDE

Present.

BENZOYL PEROXIDE

Present.

Minnesota "Right To Know" List

TITANIUM DIOXIDE

Present.

BENZOYL PEROXIDE

Present.

New Jersey "Right To Know" List

TITANIUM DIOXIDE

Present.

BENZOYL PEROXIDE

Present.

Pennsylvania "Right To Know" List

TITANIUM DIOXIDE

Present.

BENZOYL PEROXIDE

Present.

16. Other information

Revision comments

Revision date 3/7/2018

Revision 2

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.

ESTECEM II PASTE A / B

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