ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name ESTECEM II PLUS PASTE B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) [Medical Device] Adhesive resin cement. For dental professionals only.

Uses Advised Against Use only for intended applications.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification Tokuyama Dental Corporation

Address of Manufacturer 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan

Postal code 110-0016
Telephone: +81-3-3835-2261
Fax +81-3-3835-2265

E-mail https://tokuyama-dental.com/contact/

Supplier

Company Identification Tokuyama Dental Italy S.r.l.

Address of Supplier Via Chizzalunga, 1, 36066 Sandrigo, Vicenza, Italy

Postal code 36066

Telephone: +39-0444-659650 Fax +39-0444-750345

E-mail https://tokuyama-dental.com/contact/

1.4 Emergency telephone number

Emergency Phone No. 018 092 566

Contact The National Poisons Information Centre of Ireland

Beaumont Hospital

PO Box 1297, Beaumont Road, Dublin, Ireland. Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

Email : chemicalsinfo@beaumont.ie

National response centre

Address Poisons Information Centre of Ireland Beaumont Hospital, PO Box 1297, Beaumont Road,

Dublin, Ireland.

Emergency Phone No. +353 01 809 2566 (24 hours)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Skin Irrit. 2 :Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction. Eye Irrit. 2: Causes serious eye irritation.

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name ESTECEM II PLUS PASTE B (Contains: dibenzoyl peroxide)

(1-methylethylidene)bis (4,1-phenyleneoxy-2,1-ethanediyloxy-2,1-ethanediyl) bismethacrylate;

2,2'-ethylenedioxydiethyl dimethacrylate;

 $(1-methylethylidene) bis [4,1-phenyleneoxy (2-hydroxy-3,1-propaned iyl)]\ bismethacrylate;$ 

Hazard Pictogram(s)



GHS07



GHS09

Signal Word(s) Warning

Hazard Statement(s) H315: Causes skin irritation.

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

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s) P261: Avoid breathing vapours.

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P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents in accordance with local, state or national legislation.

Unique Formula Identifier (UFI):

2.3 Other hazards

Not applicable.

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

Endocrine disrupting properties: 128-37-0 (Under evaluation) (<0.1%)

2.4 Additional Information

For full text of H/P Statements see section 16.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH	W/W	Hazard Statement(s)	Hazard
		Registration No.	%		Pictogram(s)
SILICA-ZIRCONIA FILLER	-	910-388-1	60-80	Not classified	None
		01-2119860534-36-0000			
(1-methylethylidene)bis (4,1-phenyleneoxy-	41637-38-1	609-946-4	5-15	Skin Irrit. 2 H315	GHS07
2,1-ethanediyloxy-2,1-ethanediyl)				Skin Sens. 1 H317	
bismethacrylate;				Eye Irrit. 2 H319	
				STOT SE 3 H335	
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6	5-15	Skin Irrit. 2 H315	GHS07
				Skin Sens. 1B H317	
				Eye Irrit. 2 H319	
(1-methylethylidene)bis[4,1-phenyleneoxy	1565-94-2	216-367-7	1-5	Skin Sens. 1 H317	GHS07
(2-hydroxy-3,1-propanediyl)] bismethacrylate				Aquatic Chronic 3 H412	
AMORPHOUS SILICA	112945-52-5	231-545-4	1-5	Not classified	None
dibenzoyl peroxide	94-36-0	202-327-6	<1	Org. Perox. B H241	GHS07
				Skin Sens. 1 H317	GHS09
				Eye Irrit. 2 H319	
				Aquatic Acute 1 H400	
				Aquatic Chronic 1 H410	
dl-bornane-2,3-dione	10373-78-1	233-814-1	<0.5	Skin Irrit. 2 H315	GHS07
				Eye Irrit. 2 H319	
				STOT SE 3 H335	
2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4	<0.1	Aquatic Chronic 1 H410	GHS09
1,1'-(1,1-dimethyl-3-methylene-	6362-80-7	228-846-8	<0.1	Acute Tox. 4 H302	GHS08
1,3-propanediyl)bisbenzene				Skin Sens. 1 H317	GHS07
				STOT RE 2 H373	GHS09
				Aquatic Acute 1 H400	
				Aquatic Chronic 1 H410	
mequinol	150-76-5	205-769-8	<0.1	Acute Tox. 4 H302	GHS07
				Skin Sens. 1 H317	
				Eye Irrit. 2 H319	

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
dibenzoyl peroxide	94-36-0		Aquatic Acute 1: 10	
			Aquatic Chronic 1: 10	
1,1'-(1,1-dimethyl-3-methylene-	6362-80-7		Aquatic Acute 1: 10	Acute Tox. 4 (H302): 500
1,3-propanediyl)bisbenzene				
mequinol	150-76-5			Acute Tox. 4 (H302): 500

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

### SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

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### **ESTECEM II PLUS PASTE B**

Remove to fresh air immediately. Get medical advice/attention if you feel unwell. General

Inhalation Remove to fresh air immediately. Keep warm and at rest. Get medical advice/attention if you

feel unwell

Skin Contact Wash affected area with plenty of soap and water. Take off immediately all contaminated

clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

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

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion Rinse mouth. Give plenty of water to drink. If signs/symptoms continue, get medical attention.

Advice for first aider Rescuers should take suitable precautions to avoid becoming casualties themselves.

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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No specific recommendations. Treat symptomatically.

### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Extinguishing media

Suitable Extinguishing media Alcohol resistant foam. Carbon dioxide. Water fog or dry powder.

Unsuitable extinguishing media No information available

### 5.2 Special hazards arising from the substance or mixture

In case of fire: Toxic gas may be formed. Combustion or thermal decomposition will evolve

toxic vapours. Toxic gases/vapours: Carbon monoxide, Carbon dioxide

#### 5.3 Advice for firefighters

Avoid breathing gas. Avoid breathing vapours. Keep upwind. Portable containers should be moved if possible and without risk. Keep fire exposed containers cool by spraying with water. No open flames, no sparks and no smoking. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as per section 8. No open flames, no sparks and no smoking.

### 6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

### 6.3 Methods and material for containment and cleaning up

Eliminate sources of ignition. No open flames, no sparks and no smoking. Provide adequate ventilation. Keep away from clothing and other combustible materials. Adsorb spillages onto sand, earth or any suitable adsorbent material. Place in appropriate container. Avoid run off to waterways and sewers. Use non-sparking tools.

#### 6.4 Reference to other sections

See Also Section 8, 13.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Use only in well-ventilated areas. Avoid breathing vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective clothing as per section 8. Wash hands before breaks and after work. Wash the contaminated area of body with soap and fresh water. Take any precaution to avoid mixing with combustibles.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Keep cool. Protect from sunlight.

Storage temperature 0 - 10°C

Stable under the prescribed storage conditions. Storage life

Incompatible materials Flammable or combustible materials. Strong reducing agent.

7.3 Specific end use(s)

[Medical Device] Adhesive resin cement. For dental professionals only.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

8.1.1 Occupational Exposure Limits

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Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL	LTEL	STEL	STEL	Note
		(8 hr TWA ppm)	(8 hr TWA mg/m³)	(ppm)	(mg/m³)	
2,6-Ditertiary-butyl-para- cresol	10373-78-1		2			
(Butylated hydroxytoluene (BHT))						
4-Methoxyphenol (Mequinol)	150-76-5		5			
Dibenzoyl peroxide (Benzoyl peroxide)	94-36-0		5			Sens

Region Source

EU Indicative Occupational Exposure Limit Value

Ireland Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and Safety,

Health and Welfare at Work (Carcinogens) Regulations 2024, Ireland

Remark Notes

Sens In the workplace, respiratory or dermal exposures to sensitising agents may occur. Sensitisers may evoke respiratory or

dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The "sens" notation alone does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitisers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE). The absence of a "Sens." note does not signify that the chemical agent lacks the ability to produce a sensitisation but may reflect the lack

of, or inconclusiveness of, scientific evidence.

### 8.2 Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction. Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

#### 8.2.2. Personal protection equipment

	Eye Protection	Wear eye protection with side protection (EN ISO 16321-1).
	•	Wear chemical resistant protective eye glasses. Goggles.
	Skin protection	Wear protective clothing and gloves: Impervious gloves (EN 374).  Breakthrough time of the glove material: refer to the information provided by the gloves producer. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Gloves should be changed regularly to avoid permeation problems.  Wear suitable protective clothing. (Avoid contact with skin.)
(i)	Respiratory protection	Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.
	Thermal hazards	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
	Hygiene Measures	Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. A washing facility/water for eye and skin cleaning purposes should be present. Remove contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water. Wash hands before eating, drinking or smoking. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

8.2.3. Environmental Exposure Controls

Avoid release to the environment.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state paste. (Liquid.)

Colour Clear

Odour Characteristic Melting point/freezing point Not known.
Boiling point or initial boiling point and boiling Not known.

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range

Flammability
Lower and upper explosion limit
Flash Point
Auto-ignition temperature
Decomposition Temperature
PH
Not known.

Solubility Solubility (Water): Not known.

Solubility (Other): Not known.

Partition coefficient n-octanol/water

Not known.

(log value)

Vapour pressure Not known.

Density and/or relative density Not known.

Relative vapour density Not known.

Particle characteristics Not known.

9.2 Other information

None.

### SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated. See the other subsections of this section for further details.

10.2 Chemical Stability

Stable under the prescribed storage conditions.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Keep away from direct sunlight.

10.5 Incompatible materials

Flammable or combustible materials. Strong reducing agent.

10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic vapours. Toxic gases/vapours : Carbon monoxide, Carbon dioxide

### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion Calculation method : Not classified.

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

Acute toxicity - Skin Contact Calculation method : Not classified.

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

Acute toxicity - Inhalation Calculation method : Not classified.

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

Skin corrosion/irritationCalculation method : Causes skin irritation.Serious eye damage/irritationCalculation method : Causes serious eye irritation.Skin sensitization dataCalculation method : May cause an allergic skin reaction.

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

Germ cell mutagenicity Calculation method : Not classified.

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

Carcinogenicity Calculation method : Not classified.

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

dibenzoyl peroxide (94-36-0)

IARC Classification: Group 3.

NTP carcinogenicity: Not listed.

2,6-di-tert-butyl-p-cresol (128-37-0)

IARC Classification: Group 3.

NTP carcinogenicity: Not listed.

Reproductive toxicity Calculation method : Not classified.

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

Lactation Calculation method : Not classified.

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

STOT - single exposure Calculation method : Not classified.

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

STOT - repeated exposure Calculation method : Not classified.

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

Aspiration hazard Calculation method : Not classified.

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

11.2 Information on other hazards

Route(s) of entry Skin, Eyes, Ingestion, Inhalation, Health effects: See section 4.2.

Endocrine disrupting properties 128-37-0 (Under evaluation) (<0.1%)

### **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1 Toxicity

Calculation method: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates Data lacking.

Toxicity - Fish Data lacking.

Toxicity - Algae Data lacking.

Toxicity - Sediment Compartment Data lacking.

Toxicity - Terrestrial Compartment Data lacking.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

128-37-0 (Under evaluation) (<0.1%)

12.7 Other adverse effects

Not known.

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/ regional/ national/ international

regulations.

Must not be disposed of together with household garbage. Dispose at suitable refuse site. Do not allow to enter drains, sewers or watercourses. Empty containers may retain some product

residues and hence be potentially hazardous.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

# SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

UN No. 3082

14.2 UN proper shipping name

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Contains: dibenzoyl peroxide)

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 9

IMDG

IMDG Class 9

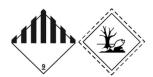
ICAO/IATA

ICAO/IATA Class 9

Labels

Labels 9

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14.4 Packing group

Packing group

14.5 Environmental hazards

Environmental hazards ADR/RID: Environmentally Hazardous

Ш

IMDG: Marine Pollutant

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Maritime transport in bulk according to IMO instruments

No information available

### **SECTION 15: REGULATORY INFORMATION**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

European Regulations - Authorisations and/	of Restrictions on ose
Candidate List of Substances of Very High	Not listed
Concern for Authorisation	
REACH: ANNEX XIV list of substances	Not listed
subject to authorisation	
REACH: Annex XVII Restrictions on the	Not listed
manufacture, placing on the market and use	
of certain dangerous substances, mixtures	
and articles	
Community Rolling Action Plan (CoRAP)	(1-methylethylidene)bis (4,1-phenyleneoxy- 2,1-ethanediyloxy-2,1-ethanediyl) bismethacrylate;
	(41637-38-1), silicon dioxide (7631-86-9), 2,6-di-tert-butyl-p-cresol (128-37-0)
Regulation (EU) N° 2019/1021 of the	Not listed
European Parliament and of the Council on	
persistent organic pollutants	
Regulation (EC) N° 2024/590 on substances	Not listed
that deplete the ozone layer	
Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Council	
concerning the export and import of	
hazardous chemicals	
	This product is a medical device as defined in Directive 93/42/EEC (MDD), which is invasive or
Directive 93/42/EEC	used in direct physical contact with the human body, and therefore is exempt from the
	requirements of classification and labelling according to Regulation (EC) No. 1272/2008 (CLP;
	Article 1, paragraph 5). Although not required, the product is classified and labelled according to
	the CLP regulation.

National regulations

15.2 Chemical Safety Assessment

Not known.

A REACH chemical safety assessment has not been carried out.

### SECTION 16: OTHER INFORMATION

The following sections contain revisions or

This is the first issue.

new statements: Date of Issue :

01-09-2025

Revision (EN):

LEGEND

Hazard Pictogram(s)





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GHS08: GHS: Health hazard

Hazard Statement(s)

Precautionary Statement(s)

Acronyms

Hazard classification

Org. Perox. B : Organic peroxide, CategoryB

Acute Tox. 4 : Acute toxicity, Category 4

Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Skin Sens. 1 : Skin sensitization, Category 1

Skin Sens. 1B : Skin sensitization, Category 1B Eye Irrit. 2 : Serious eye damage/irritation, Category 2

STOT SE 3: Specific target organ toxicity — single exposure, Category 3 STOT RE 2: Specific target organ toxicity — repeated exposure, Category 2 Aquatic Acute 1: Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment, Chronic, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment, Chronic, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment, Chronic, Category 3

H241: Heating may cause a fire or explosion.

H302: Harmful if swallowed. H315: Causes skin irritation.

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

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.

P261: Avoid breathing vapours.

P264: Wash hands and exposed skin thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

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.

P391: Collect spillage.

P501: Dispose of contents in accordance with local, state or national legislation.

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service

 ${\hbox{\footnotesize CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and a classification of the contraction of the c$ 

mixtures

DNEL : Derived No Effect Level EC : European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA : International Air Transport Association

IBC : Intermediate Bulk Container

ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

UN : United Nations

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS

Regulation (EC) No. 1272/2008 (CLP)

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Training Advice

Disclaimers

Ensure operatives are trained to minimise exposure. Only trained personnel should use this material.

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.

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