

SAFETY DATA SHEET

TOKUYAMA UNIVERSAL PRIMER B

1. IDENTIFICATION

Product Name	TOKUYAMA UNIVERSAL PRIMER B
Identified uses	Primer to enhance bonding between ceramics, metal and resin. For dental professionals only.
Supplier	Tokuyama Dental America Inc. Tel: (877) 378 3548 (Toll-Free) http://www.tokuyama-dental.com/contact.htm
Contact Person	
Manufacturer	Tokuyama Dental Corporation 38-9, Taitou 1-chome, Taitou-ku, Tokyo, Japan TEL: +81-3-3835-7201
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 Telephone: +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. HAZARD(S) IDENTIFICATION

This product does not contain any PBT or vPvB Substances.

Appearance	Clear liquid.
Color	Light (or pale). Yellowish
Odor	Not available.
GHS Pictogram	



Signal Word Danger

Hazard Statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P243	Take precautionary measures against static discharge.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P403+235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container in accordance with local regulations.

GHS Classification

Physical and Chemical Hazards

Flam. Liq. 2 - H225

Human health

Eye Irrit. 2 - H319; STOT SE 3 - H336

Environment

Not classified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

1,6-bis(methacrylethylloxycarbonylamino)trimethylhexane (UDMA)

1-5%

CAS No.: 72869-86-4

EC No.: 276-957-5

GHS Classification

Not classified.

11-methacryloxy-1,1-undecanedicarboxylic acid (MAC-10)

1-5%

CAS No.: 108362-85-2

EC No.:

GHS Classification

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335

acetone

80-100%

CAS No.: 67-64-1

EC No.: 200-662-2

GHS Classification

Flam. Liq. 2 - H225; Eye Irrit. 2 - H319; STOT SE 3 - H336

dibutyl hydroxy toluene

< 1%

CAS No.: 128-37-0

EC No.: 204-881-4

GHS Classification

Aquatic Chronic 1 - H410

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

1-5%

CAS No.: 52628-03-2

EC No.: 258-053-2

GHS Classification

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319

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4. FIRST-AID MEASURES

Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once.

Ingestion

Immediately rinse mouth and drink plenty of water (200-300 ml). 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.

Most important symptoms and effects, both acute and delayed

General Information

No information available.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No specific recommendations.

5. FIRE-FIGHTING MEASURES

Auto Ignition Temperature (°C)

Not available.

Flash point (°C) < - 20 °C

Extinguishing Media

Fire can be extinguished using: Foam. Carbon dioxide or dry powder.

Specific Hazards

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

Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Wear full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

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

Environmental Precautions

Collect and dispose of spillage as indicated in section 13.

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.

Reference to other sections

For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

All handling to take place in well-ventilated area.

Storage

Store under refrigerated conditions at temperatures between 0 to 10 °C (32 to 50°F). Keep away from heat, direct sunlight, sparks and open flames.

Storage Class

Flammable liquid storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
acetone	PEL	1000 ppm	2400 mg/m ³			
acetone	ACGIH	500 ppm		750 ppm		A4
dibutyl hydroxy toluene	ACGIH		2 mg/m ³			A4
COMPONENT						IDLH
acetone						2500 ppm

ACGIH=American Conference of Governmental Industrial Hygienists.

A4: Not Classifiable as a Human Carcinogen.

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 hands 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid.
Color	Light (or pale). Yellowish
Odor	Not available.
Solubility	Not available.
Initial boiling point and boiling range	
	Not available.
Melting point (°C)	
	Not available.
Relative density	0.830 g/ml
Vapor density (air=1)	
	Not available.
Vapor pressure	
	Not available.
Evaporation rate	
	Not available.
Evaporation Factor	
	Not applicable.
pH-Value, Conc. Solution	
	Technical impossibility to obtain the data.
Viscosity	
	Not available.

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Solubility Value (G/100G H₂O@20°C)

Not available.

Decomposition temperature (°C)

Not available.

Flash point < - 20 °C

Auto Ignition Temperature (°C)

Not available.

**Partition Coefficient
(N-Octanol/Water)**

Not available.

10. STABILITY AND REACTIVITY

Reactivity

Reaction with: Strong oxidizing agents. Water. Acids.

Stability

HIGHLY FLAMMABLE!

Toxic gases are generated when heated.

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.

Acute toxicity:**Acute Toxicity (Oral LD₅₀)**

Not available.

Acute Toxicity (Dermal LD₅₀)

Not available.

Acute Toxicity (Inhalation LC₅₀)

Not available.

Skin Corrosion/Irritation:

Not available.

Serious eye damage/irritation:

Not available.

Respiratory or skin sensitisation:**Respiratory sensitisation**

Not available.

Skin sensitisation

Not available.

Germ cell mutagenicity:**Genotoxicity - In Vitro**

Not available.

Genotoxicity - In Vivo

Not available.

Carcinogenicity:**Carcinogenicity**

Not available.

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Reproductive Toxicity:

Reproductive Toxicity - Fertility

Not available.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Not available.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

Not available.

Aspiration hazard:

Viscosity

Not available.

12. ECOLOGICAL INFORMATION

Acute Toxicity - Fish

Not available.

Acute Toxicity - Aquatic Invertebrates

Not available.

Acute Toxicity - Aquatic Plants

Not available.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

Mobility:

No information available.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

UN No. (DOT/TDG)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133
DOT Proper Shipping Name	ADHESIVES, CONTAINING A FLAMMABLE LIQUID
TDG Proper Shipping Name	ADHESIVES, CONTAINING A FLAMMABLE LIQUID
DOT Hazard Class	3
DOT Hazard Label	
Flammable Liquid	
TDG Class	3
TDG Label(s)	3

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IMDG Class 3

ICAO Class 3

Transport Labels



DOT Pack Group II

IMDG Pack Group II

Air Pack Group II

Environmentally Hazardous Substance/Marine Pollutant
No.

EMS F-E, S-D

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes
Not applicable.

15. REGULATORY INFORMATION

Regulatory References

29 CFR 1910. 1200(g) Federal Regulations (OSHA Standard).

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

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

The following ingredients are listed.

acetone; 5, 000 lbs (2270 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

acetone

dibutyl hydroxy toluene

Rhode Island "Right To Know" List

The following ingredients are listed.

acetone

dibutyl hydroxy toluene

Minnesota "Right To Know" List

The following ingredients are listed.

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acetone

dibutyl hydroxy toluene

New Jersey "Right To Know" List

The following ingredients are listed.

acetone

dibutyl hydroxy toluene

Pennsylvania "Right To Know" List

The following ingredients are listed.

acetone

dibutyl hydroxy toluene

International Inventories

EU - EINECS/ELINCS

The following ingredients are listed.

1, 6-bis(methacrylethyloxycarbonylamino)trimethylhexane (UDMA)

dibutyl hydroxy toluene

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

Canada – DSL/NDSL

The following ingredients are listed.

acetone

dibutyl hydroxy toluene

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

US - TSCA

The following ingredients are listed.

1, 6-bis(methacrylethyloxycarbonylamino)trimethylhexane (UDMA)

acetone

dibutyl hydroxy toluene

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

US – TSCA 12(b) Export Notification

The following ingredients are listed.

acetone

Australia - AICS

The following ingredients are listed.

1, 6-bis(methacrylethyloxycarbonylamino)trimethylhexane (UDMA)

dibutyl hydroxy toluene

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

Japan – MITI

The following ingredients are listed.

dibutyl hydroxy toluene

Korea - KECI

The following ingredients are listed.

dibutyl hydroxy toluene

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

China - IECSC

The following ingredients are listed.

1, 6-bis(methacrylethyloxycarbonylamino)trimethylhexane (UDMA)

dibutyl hydroxy toluene

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

Phillippines – PICCS

The following ingredients are listed.

dibutyl hydroxy toluene

methacryloxyalkyl acid phosphate (phosphoric acid monomer)

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16. OTHER INFORMATION

Revision Date

22/11/2013

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.