SAFETY DATA SHEET TOKUYAMA UNIVERSAL BOND BOND A

| 1. Identification | |
|----------------------------------|--|
| Product identifier | |
| | |
| Product name | TOKUYAMA UNIVERSAL BOND BOND A |
| Recommended use of the che | emical and restrictions on use |
| Restriction on use | Dental Adhesive. For dental professionals only. |
| Details of the supplier of the s | 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 | <u>er</u> |
| 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 substanc | e 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 | Flam. Liq. 2 - H225 |
| Health hazards | Skin Irrit. 2 - H315 : Eye Irrit. 2 - H319 : Skin Sens. 1 - H317 : STOT SE 3 - H336 |
| Environmental hazards | Not Classified |
| Label elements | |
| Pictogram | |
| | |
| Signal word | Danger |
| Hazard statements | H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. |

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

| Precautionary statements | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No |
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| | smoking. |
| | P240 Ground and bond container and receiving equipment. |
| | P241 Use explosion-proof electrical equipment. |
| | P242 Use non-sparking tools. |
| | P243 Take action to prevent static discharges. |
| | P261 Avoid breathing vapour/ spray. |
| | 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. |
| | P302+P352 IF ON SKIN: Wash with plenty of water. |
| | P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. |
| | Rinse skin with water [or shower]. |
| | 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. |
| | P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. |
| | P403+P233 Store in a well-ventilated place. Keep container tightly closed. |
| | P403+P235 Store in a well-ventilated place. Keep cool. |
| | P405 Store locked up. |
| | P501 Dispose of contents/ container in accordance with local regulations. |
| Contains | 2-PROPANONE, 2-PROPENOIC ACID, 2-METHYL-, (1-METHYLETHYLIDENE)BIS[4,1- |
| | PHENYLENEOXY(2-HYDROXY-3,1-PROPANEDIYL)] ESTER, 2-PROPENOIC ACID, 2- |
| | METHYL-, 2-HYDROXYETHYL ESTER, 2-PROPENOIC ACID, 2-METHYL-, 1,2- |
| | ETHANEDIYLBIS(OXY-2,1-ETHANEDIYL) ESTER |
| | |
| 2. Composition /information on | the same all surface |

3. Composition/information on ingredients

Mixtures

2-PROPANONE

CAS number: 67-64-1

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

CAS number: 1565-94-2

2-PROPENOIC ACID, 2-METHYL-, 2-HYDROXYETHYL ESTER

CAS number: 868-77-9

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

CAS number: 109-16-0

10-30%

30-60%

10-30%

5-10%

1-5% 2-PROPENOIC ACID, 2-METHYL-, 2-HYDROXYETHYL ESTER, PHOSPHATE CAS number: 52628-03-2 2,6-DI-t-BUTYL-4-METHYLPHENOL <1% CAS number: 128-37-0 M factor (chronic) = 1 4. First-aid measures Description of first aid measures General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Ingestion Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Keep affected person under observation. Get medical attention. Skin contact Wash skin thoroughly with soap and water. In the event of any sensitization symptoms developing, ensure further exposure is avoided. Get medical attention if symptoms are severe or persist after washing. Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues. First aid personnel should wear appropriate protective equipment during any rescue. Protection of first aiders Most important symptoms and effects, both acute and delayed **General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Inhalation May cause drowsiness or dizziness. Skin contact Irritating to skin. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking. Eye contact Irritating to eyes. Indication of any immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. 5. Fire-fighting measures Extinguishing media Suitable extinguishing media Highly flammable gases or vapours. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media

Specific hazards arising from the hazardous product

| fire or explosion hazard. Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Irritating gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2). Advice for firefighters Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if i can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of severs and watercourses. Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable. 6. Accidental release measures Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Environme | | |
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| products Harmful gases or vapours. Irritating gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2). Advice for firefighters Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. Special protective equipment for firefighters Other positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable. 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 action shall be taken without appropriate training or involving any personal risk. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of dignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of dust and vapours. Use suitable respiratory protection 1 ventilation is inadequate. Avoid contact with skin and eyes. Environmental preca | Specific hazards | due to excessive pressure build-up. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create |
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| hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13. 7. Handling and storage | Reference to other sections | |
| | Reference to other sections | hazards. See Section 12 for additional information on ecological hazards. For waste disposal, |
| | 7. Handling and storage | |
| | | |

Precautions for safe handling

| Usage precautions | Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Avoid breathing gas, fume, vapours or spray. Handle all packages and containers carefully to minimize spills. Avoid the formation of mists. Keep container tightly sealed when not in use. Do not handle broken packages without protective equipment. Keep away from food, drink and animal feeding stuffs. |
|--|--|
| Advice on general occupational hygiene Conditions for safe storage, in | 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 if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. |
| Storage precautions | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed, in a cool, well ventilated place. Store locked up. Keep only in the original container. Protect containers from damage. Store away from the following materials: Oxidizing materials. Organic peroxides/hydroperoxides. |
| Specific end use(s) | |
| Specific end use(s) | The identified uses for this product are detailed in Section 1. |
| 8. Exposure Controls/persona | I protection |
| 8. Exposure Controls/persona | I protection |

Control parameters

Occupational exposure limits

2-PROPANONE

Long-term exposure limit (8-hour TWA): ACGIH 250 ppm 594 mg/m³ Short-term exposure limit (15-minute): ACGIH 500 ppm 1187 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 ventilation. Use explosion-proof electrical, ventilating and lighting equipment. Observe any occupational exposure limits for the product or ingredients. |
|----------------------------------|--|
| Eye/face protection | Wear tight-fitting, chemical splash goggles or face shield. |
| Hand protection | Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.9), and any relevant provincial regulation relating to health and safety at work. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. |
| Other skin and body protection | Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| Hygiene measures | Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. |

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Full face mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Half mask and quarter mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work. Half mask and quarter mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work. SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Half mask and quarter mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work.

9. Physical and Chemical Properties

Information on basis physical and shaminal properties

| Information on basic physical | |
|--|---|
| Appearance | Liquid |
| Colour | Colourless ~ Yellow |
| Odour | Characteristic |
| Odour threshold | Not available. |
| рН | Not available. |
| Melting point | Not available. |
| Initial boiling point and range | >35°C |
| Flash point | -17.6°C |
| Evaporation rate | 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 | 0.968 |
| Solubility(ies) | No information 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. |
| 10. Stability and reactivity | |
| Reactivity | The following materials may react violently with the product: Oxidizing materials. Organic peroxides/hydroperoxides. See the other subsections of this section for further details. |
| Stability | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. |

| Possibility of hazardous reactions | The following materials may react strongly with the product: Oxidizing materials. Organic peroxides/hydroperoxides. | |
|---|--|--|
| Conditions to avoid | Vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. | |
| Materials to avoid | Oxidizing materials. Organic peroxides/hydroperoxides. | |
| Hazardous decomposition products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Irritating gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2). | |
| 11. Toxicological information | | |
| Information on toxicological eff | Tects | |
| UDF Phrase 1 | Skin, Eyes, Ingestion, Inhalation, Health effects: See section 4. | |
| Acute toxicity - oral Notes (oral LD₅₀) | Not available. | |
| Acute toxicity - dermal Notes (dermal LD∞) | Not available. | |
| Acute toxicity - inhalation Notes (inhalation LC ₅₀) | Not available. | |
| Skin corrosion/irritation Skin corrosion/irritation | Skin Irrit. 2 - H315 Irritating to skin. | |
| 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. | |
| Carcinogenicity | | |
| Carcinogenicity | Not available. | |
| IARC carcinogenicity | Some of the ingredients are listed or exempt. IARC Group 3 Not classifiable as to its carcinogenicity to humans. | |
| Reproductive toxicity | | |
| Reproductive toxicity - fertility | Not available. | |
| Reproductive toxicity - development | Not available. | |
| Specific target organ toxicity - | single exposure | |
| STOT - single exposure | STOT SE 3 - H336 May cause drowsiness or dizziness | |

STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness.

| Target organs | Central | Central nervous system | | |
|---|---|--|--|--|
| Specific target organ toxicity - | repeated | exposure | | |
| STOT - repeated exposure | STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure. | | | |
| Aspiration hazard | | | | |
| - | Aspiration hazard Not available. | | | |
| Toxicological information on i | ngredients | | | |
| | | SILICA | | |
| Carcinogenicity | | | | |
| IARC carcinoge | nicity | IARC Group 3 Not classifiable as to its carcinogenicity to humans. | | |
| NTP carcinogen | icity | Reasonably anticipated to be a human carcinogen. | | |
| OSHA Carcinog | enicity | Not listed. | | |
| | | 2,6-DI-t-BUTYL-4-METHYLPHENOL | | |
| Carcinogenicity | | | | |
| IARC carcinoge | nicity | IARC Group 3 Not classifiable as to its carcinogenicity to humans. | | |
| NTP carcinogen | icity | Reasonably anticipated to be a human carcinogen. | | |
| OSHA Carcinog | enicity | Not listed. | | |
| 12. Ecological Information | | | | |
| Toxicity | No info | mation available. | | |
| - | | | | |
| Acute aquatic toxicity Acute toxicity - fish | Not ava | ilable. | | |
| Acute toxicity - aquatic invertebrates | Not ava | ilable. | | |
| Acute toxicity - aquatic plants | Not available. | | | |
| Ecological information on ing | redients | | | |
| | | 2,6-DI-t-BUTYL-4-METHYLPHENOL | | |
| Chronic aquatic | toxicity | | | |
| M factor (chronic | c) | 1 | | |
| Persistence and degradability | , | | | |
| Persistence and degradability | istence and degradability The degradability of the product is not known. | | | |
| Bioaccumulative potential | | | | |
| Bioaccumulative potential | | | | |
| Partition coefficient | Not ava | ilable. | | |
| Mobility in soil | | | | |
| Mobility | Volatile liquid. The product contains organic solvents which will evaporate easily from all surfaces. | | | |
| Other adverse effects | | | | |

| Other adverse effects | None known. |
|-----------------------------|---|
| 13. Disposal considerations | |
| 13.1 Waste treatment method | <u>ls</u> |
| | 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. |
| 14. Transport information | |
| General | For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section. |
| UN number | |
| UN No. (TDG) | 1133 |
| UN No. (IMDG) | 1133 |

| The transport information | |
|-----------------------------|---|
| General | For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section. |
| UN number | |
| UN No. (TDG) | 1133 |
| UN No. (IMDG) | 1133 |
| UN No. (ICAO) | 1133 |
| UN No. (DOT) | UN1133 |
| UN proper shipping name | |
| Proper shipping name (TDG) | ADHESIVES, containing flammable liquid |
| Proper shipping name (IMDG) | ADHESIVES, containing flammable liquid |
| Proper shipping name (ICAO) | ADHESIVES, containing flammable liquid |
| Proper shipping name (DOT) | Adhesives, a containing flammable liquid |
| Transport hazard class(es) | |
| DOT class | 3 |
| DOT hazard label | 3 |
| TDG class | 3 |
| TDG label(s) | 3 |
| IMDG class | 3 |
| ICAO class/division | 3 |
| DOT transport label | |



Transport labels



| Packing group | |
|--------------------|---|
| TDG packing group | П |
| IMDG packing group | П |
| ICAO packing group | П |
| DOT packing group | П |
| | |

Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-E, S-D

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

| 15. Regulatory information | |
|----------------------------|---|
| Regulatory References | Hazardous Products Regulations - SOR/2015-17. Transportation of Dangerous Goods Regulations -SOR/2015-100. |
| 16. Other information | |
| Revision comments | |
| Revision date | 15/10/2022 |
| Revision | 2 |
| Hazard statements in full | H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. |

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.