

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**LuxaBond Total Etch (bond A)**

Revision date: 15.04.2021

Product code: 2222

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

LuxaBond Total Etch (bond A)

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

pregnant or breastfeeding people should not work with hazardous substances

**1.3. Details of the supplier of the safety data sheet**

|               |                                          |                                 |
|---------------|------------------------------------------|---------------------------------|
| Company name: | DMG Chemisch-Pharmazeutische Fabrik GmbH |                                 |
| Street:       | Elbgaustraße 248                         |                                 |
| Place:        | D-22547 Hamburg                          |                                 |
| Telephone:    | +49. (0) 40. 84006-0                     | Telefax: +49. (0) 40. 84006-222 |
| e-mail:       | info@dmg-dental.com                      |                                 |
| Internet:     | www.dmg-dental.com                       |                                 |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause respiratory irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

**2.2. Label elements****Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

|      |                                      |
|------|--------------------------------------|
| H335 | May cause respiratory irritation.    |
| H318 | Causes serious eye damage.           |
| H317 | May cause an allergic skin reaction. |

**Precautionary statements**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P313           | Get medical advice/attention.                                                                                                    |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.                                    |

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

chemical characterization (preparation): Acrylate.-resin.

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**Hazardous components**

| CAS No    | Chemical name                                                             |          |          | Quantity  |
|-----------|---------------------------------------------------------------------------|----------|----------|-----------|
|           | EC No                                                                     | Index No | REACH No |           |
|           | Classification (Regulation (EC) No 1272/2008)                             |          |          |           |
| 1565-94-2 | Bis-GMA                                                                   |          |          | 15 - 25 % |
|           | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H335 |          |          |           |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No    | EC No                                    | Chemical name | Quantity  |
|-----------|------------------------------------------|---------------|-----------|
|           | Specific Conc. Limits, M-factors and ATE |               |           |
| 1565-94-2 |                                          | Bis-GMA       | 15 - 25 % |
|           | oral: LD50 = 5000 mg/kg                  |               |           |

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Move victim to fresh air. Put victim at rest and keep warm.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Call a physician immediately.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO<sub>2</sub>).**Unsuitable extinguishing media**

High power water jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear suitable protective clothing. Provide adequate ventilation.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****Other information**

Take up mechanically.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

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**Advice on general occupational hygiene**

When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation of the storage area.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

**Respiratory protection**

The following must be prevented: inhalation.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                 |             |
|-----------------|-------------|
| Physical state: | liquid      |
| Colour:         | yellow      |
| Odour:          | like: ester |

**Changes in the physical state**

|                                                           |          |
|-----------------------------------------------------------|----------|
| Boiling point or initial boiling point and boiling range: | 100 °C   |
| point of decomposition:                                   | > 200 °C |
| Flash point:                                              | > 100 °C |
| pH-Value (at 20 °C):                                      | 4.5 - 7  |

**Solubility in other solvents**

Solubility ca. 50 %

|                                |                       |
|--------------------------------|-----------------------|
| Vapour pressure:<br>(at 20 °C) | 23 hPa                |
| Density:                       | 1,1 g/cm <sup>3</sup> |
| Relative vapour density:       | > 1                   |

**SECTION 10: Stability and reactivity**

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**10.4. Conditions to avoid**

Light. heat.

**10.5. Incompatible materials**

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Gas / vapours, irritant. (Acrylate., pungent)

**Further information**

Substances sensitive to light.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

LD50: Rat 5500mg/kg

| CAS No    | Chemical name  |               |         |        |                  |
|-----------|----------------|---------------|---------|--------|------------------|
|           | Exposure route | Dose          | Species | Source | Method           |
| 1565-94-2 | Bis-GMA        |               |         |        |                  |
|           | oral           | LD50<br>mg/kg | 5000    | Rat    | literature value |

**Irritation and corrosivity**

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye: Frequently or prolonged contact with skin may cause dermal irritation.

**Sensitising effects**

May cause sensitization by skin contact.

**Additional information on tests**

Contains Methacrylates: May produce an allergic reaction. May cause sensitization by skin contact.

**SECTION 12: Ecological information****12.1. Toxicity**

Aquatic toxicity LC50: &gt; 360 mg / l / 48h

**12.2. Persistence and degradability**

Product is partially biodegradable. 50%

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Further information**

Do not allow to enter into surface water or drains. Leakage into the environment must be prevented.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Carry out a burning of hazardous waste according to official regulations.

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**List of Wastes Code - residues/unused products**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances; hazardous waste

**SECTION 14: Transport information****Other applicable information**

No dangerous good in sense of these transport regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

**National regulatory information**

Water hazard class (D): - - non-hazardous to water

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

|      |                                      |
|------|--------------------------------------|
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage.           |
| H319 | Causes serious eye irritation.       |
| H335 | May cause respiratory irritation.    |

**Further Information**

-

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**LuxaBond Total Etch Bond B**

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Product code: 2222

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

LuxaBond Total Etch Bond B

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

|               |                                          |                                 |
|---------------|------------------------------------------|---------------------------------|
| Company name: | DMG Chemisch-Pharmazeutische Fabrik GmbH |                                 |
| Street:       | Elbgaustraße 248                         |                                 |
| Place:        | D-22547 Hamburg                          |                                 |
| Telephone:    | +49. (0) 40. 84006-0                     | Telefax: +49. (0) 40. 84006-222 |
| e-mail:       | info@dmg-dental.com                      |                                 |
| Internet:     | www.dmg-dental.com                       |                                 |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause respiratory irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

|      |                                      |
|------|--------------------------------------|
| H335 | May cause respiratory irritation.    |
| H318 | Causes serious eye damage.           |
| H317 | May cause an allergic skin reaction. |

**Precautionary statements**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P313           | Get medical advice/attention.                                                                                                    |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

chemical characterization (preparation): Acrylate.-resin.

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**Hazardous components**

| CAS No    | Chemical name                                                             |          |          | Quantity  |
|-----------|---------------------------------------------------------------------------|----------|----------|-----------|
|           | EC No                                                                     | Index No | REACH No |           |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP]           |          |          |           |
| 1565-94-2 | Bis-GMA                                                                   |          |          | 15 - 25 % |
|           | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H335 |          |          |           |

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Move victim to fresh air. Put victim at rest and keep warm.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Call a physician immediately.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO<sub>2</sub>).**Unsuitable extinguishing media**

High power water jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing. Provide adequate ventilation.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Store only in original container.

**SECTION 8: Exposure controls/personal protection**

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**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation of the storage area.

**Protective and hygiene measures**

When using do not eat or drink.

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

**Respiratory protection**

The following must be prevented: inhalation.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                          |             |                       |
|------------------------------------------|-------------|-----------------------|
| Physical state:                          | liquid      |                       |
| Colour:                                  | yellow      |                       |
| Odour:                                   | like: ester |                       |
| pH-Value (at 20 °C):                     |             | 4.5 - 7               |
| <b>Changes in the physical state</b>     |             |                       |
| Initial boiling point and boiling range: |             | 100 °C                |
| point of decomposition:                  |             | > 200 °C              |
| Flash point:                             |             | > 100 °C              |
| Vapour pressure:<br>(at 20 °C)           |             | 23 hPa                |
| Density:                                 |             | 1,1 g/cm <sup>3</sup> |
| <b>Solubility in other solvents</b>      |             |                       |
| Solubility ca. 50 %                      |             |                       |
| Vapour density:                          |             | > 1                   |

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

Light. heat.

**10.5. Incompatible materials**

Keep away from strong acids, leachates, heavy metal salts and reducing materials.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Gas / vapours, irritant. (Acrylate., pungent)

**Further information**

Substances sensitive to light.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**



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**Acute toxicity**

LD50: Rat 5500mg/kg

| CAS No    | Chemical name  |                    |         |                  |        |
|-----------|----------------|--------------------|---------|------------------|--------|
|           | Exposure route | Dose               | Species | Source           | Method |
| 1565-94-2 | Bis-GMA        |                    |         |                  |        |
|           | oral           | LD50<br>mg/kg 5000 | Rat     | literature value |        |

**Irritation and corrosivity**

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye: Frequently or prolonged contact with skin may cause dermal irritation.

**Sensitising effects**

May cause sensitization by skin contact.

**Additional information on tests**

Contains Methacrylates: May produce an allergic reaction. May cause sensitization by skin contact.

**SECTION 12: Ecological information****12.1. Toxicity**

Aquatic toxicity LC50: &gt; 360 mg / l / 48h

**12.2. Persistence and degradability**

Product is partially biodegradable. 50%

**Further information**

Do not allow to enter into surface water or drains. Leakage into the environment must be prevented.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Carry out a burning of hazardous waste according to official regulations.

**Waste disposal number of waste from residues/unused products**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances; hazardous waste

**SECTION 14: Transport information****Other applicable information**

No dangerous good in sense of these transport regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): - - not water contaminating

**SECTION 16: Other information**

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#### Relevant H and EUH statements (number and full text)

|      |                                      |
|------|--------------------------------------|
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage.           |
| H319 | Causes serious eye irritation.       |
| H335 | May cause respiratory irritation.    |

#### Further Information

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*