



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**LuxaBond-Total Etch (Pre-Bond)**

Print date: 03.07.2014

Product code: 6700\_GHS

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**Hazardous components**

| EC No        | Chemical name            | Quantity |
|--------------|--------------------------|----------|
| CAS No       | Classification           |          |
| Index No     | GHS classification       |          |
| REACH No     |                          |          |
| 200-578-6    | ethanol, ethyl alcohol   | < 100 %  |
| 64-17-5      | F - Highly flammable R11 |          |
| 603-002-00-5 | Flam. Liq. 2; H225       |          |

Full text of R and H phrases: 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. Change contaminated clothing. Rub in high-fat content cream.

**After contact with eyes**

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

**After ingestion**

If swallowed, immediately drink: Water. Consult physician.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Atomized water. alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Sand.**Extinguishing media which must not be used for safety reasons**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Concentrated vapors are heavier than air. Vapours may form explosive mixtures with air.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

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

Keep away from sources of ignition - No smoking.

The following must be prevented: inhalation. skin contact. Eye contact.

**6.2. Environmental precautions**

Do not empty into drains or the aquatic environment.

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

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 away from sources of ignition - No smoking. Provide adequate ventilation.

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**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****Exposure limits (EH40)**

| CAS No  | Substance | ppm  | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-----------|------|-------------------|-----------|---------------|--------|
| 64-17-5 | Ethanol   | 1000 | 1920              |           | TWA (8 h)     | WEL    |
|         |           | -    | -                 |           | STEL (15 min) | WEL    |

**8.2. Exposure controls****Protective and hygiene measures**

When using do not eat or drink.

**Respiratory protection**

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

**Hand protection**

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

**Eye protection**

Tightly sealed safety glasses.

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

Physical state: liquid  
Colour: colourless-transparent  
Odour: characteristic

**Test method**

pH-Value: neutral

**Changes in the physical state**

Melting point: ca. -115 °C  
Boiling point: ca. 80 °C  
Flash point: 12 °C  
Lower explosion limits: 3.5 vol. %  
Upper explosion limits: 15 vol. %  
Ignition temperature: 425 °C  
Vapour pressure: 59 hPa  
(at 20 °C)  
Density (at 20 °C): ca. 0,8 g/cm<sup>3</sup>  
Water solubility: complete miscible

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Viscosity / dynamic:  
(at 20 °C)

1,3 mPa·s

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

heat.

**10.5. Incompatible materials**

Oxidizing agents. peroxides. acid. Alkali metals.

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

Acute toxicity, oral LD50: (species: Rat.): &gt; 6200 mg/kg; Acute toxicity, inhalant 95.6 mg / l / 4 h

| CAS No  | Chemical name           |        |            |         |        |
|---------|-------------------------|--------|------------|---------|--------|
|         | Exposure routes         | Method | Dose       | Species | Source |
| 64-17-5 | ethanol, ethyl alcohol  |        |            |         |        |
|         | oral                    | LD50   | 6200 mg/kg | Rat     | IUCLID |
|         | inhalative (4 h) vapour | LC50   | 95,6 mg/l  | Rat     | RTECS  |

**Irritation and corrosivity**

In case of prolonged or frequently repeated skin contact: irritant.; Following eye contact: irritant.

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

Acute fish toxicity (Leuciscus idus): LC50: &gt; 8140 mg / l / 48 h (Ethanol);

Acute Daphnia toxicity (Daphnia magna): EC50: 9268 - 14221 mg / l / 48 h

| CAS No  | Chemical name            |              |              |    |               |        |
|---------|--------------------------|--------------|--------------|----|---------------|--------|
|         | Aquatic toxicity         | Method       | Dose         | h  | Species       | Source |
| 64-17-5 | ethanol, ethyl alcohol   |              |              |    |               |        |
|         | Acute crustacea toxicity | EC50<br>mg/l | 9268 - 14221 | 48 | Daphnia magna | IUCLID |

**12.2. Persistence and degradability**

Easily biodegradable (concerning to the criteria of the OECD)

**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

| CAS No  | Chemical name          | Log Pow |
|---------|------------------------|---------|
| 64-17-5 | ethanol, ethyl alcohol | -0,31   |

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

Remove according to the regulations.

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

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Classified as hazardous waste.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** 1170  
**14.2. UN proper shipping name:** ETHANOL (ETHYL ALCOHOL)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 144 601  
Limited quantity: 1 L  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

**Other applicable information (land transport)**

E2

**Marine transport (IMDG)**

**14.1. UN number:** 1170  
**14.2. UN proper shipping name:** ETHANOL (ETHYLALKOHOL)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: 144  
Limited quantity: 3 L  
EmS: F-E, S-D

**Other applicable information (marine transport)**

E2

**Air transport (ICAO)**

**14.1. UN number:** 1170  
**14.2. UN proper shipping name:** ETHANOL (ETHYLALKOHOL)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3

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|  |     |      |
|--|-----|------|
| Special Provisions:                    | A3  |      |
| Limited quantity Passenger:            | 1 L |      |
| IATA-packing instructions - Passenger: |     | 353  |
| IATA-max. quantity - Passenger:        |     | 5 L  |
| IATA-packing instructions - Cargo:     |     | 364  |
| IATA-max. quantity - Cargo:            |     | 60 L |

**Other applicable information (air transport)**

E2  
: Y341

**14.5. Environmental hazards**

Dangerous for the environment: no

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

National regulatory information

**SECTION 16: Other information****Full text of R phrases referred to under Sections 2 and 3**

11 Highly flammable.  
43 May cause sensitisation by skin contact.

**Full text of H statements referred to under Sections 2 and 3**

H225 Highly flammable liquid and vapour.

*(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 A + B)

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Product code: 2222\_GHS

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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 + 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

Indications of danger: Xi - Irritant  
R phrases:  
Irritating to eyes, respiratory system and skin.  
May cause sensitisation by skin contact.

#### GHS classification

Hazard Statements:  
May cause respiratory irritation.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction.

#### 2.2. Label elements

|              |         |
|--------------|---------|
| Signal word: | Warning |
| Pictograms:  | GHS07   |



#### Hazard statements

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

#### Precautionary statements

|                |  |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

chemical characterization (preparation): Acrylate.-resin.

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### 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**

Immediately get medical attention.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO<sub>2</sub>).

##### **Extinguishing media which must not be used for safety reasons**

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 empty into drains or the aquatic environment.

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

Collect 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

#### 8.1. Control parameters

#### 8.2. Exposure controls



##### **Occupational exposure controls**

Ensure adequate ventilation of the storage area.

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**Protective and hygiene measures**

When using do not eat or drink.

**Respiratory protection**

The following must be prevented: inhalation.

**Hand protection**

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

**Eye protection**

Tightly sealed safety glasses.

**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 |
|----------------------|---------|

**Changes in the physical state**

|                                |                       |
|--------------------------------|-----------------------|
| Boiling point:                 | 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> |

**Solubility in other solvents**

Solubility ca. 50 %

|                 |     |
|-----------------|-----|
| Vapour density: | > 1 |
|-----------------|-----|

**Test method****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**

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

**Further information**

Substances sensitive to light.

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

LD50: Rat. 5500mg/kg

**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.

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### Additional information on tests

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Aquaticity LC50: &gt; 360 mg / l / 48h

### 12.2. Persistence and degradability

Product is partially biodegradable. 50%

### Further information

Do not empty into drains or the aquatic environment. 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

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Classified as hazardous waste.

## SECTION 14: Transport information

### Other applicable information

Not a hazardous material with respect to these transportation 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

### Full text of R phrases referred to under Sections 2 and 3

36/37/38 Irritating to eyes, respiratory system and skin.  
43 May cause sensitisation by skin contact.

### Full text of H statements referred to under Sections 2 and 3

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
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.)