

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

073243516

N/A

# Safety Data Sheet

## LuxaBond-Total Etch (Pre-Bond)

Product code: 212384 (GHS\_6700)

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**LuxaBond-TotalEtch-PreBond**

CAS No: 64-17-5

Index No: 603-002-00-5

EC No: 200-578-6

#### 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 America LLC

**Address:** 242 South Dean Street

Englewood, NJ. 07631

**Telephone:** (800) 662-6383

(800) 535-5053 (INFOTRAC Emergency number number)

**Email address:** [info@dmg-america.com](mailto:info@dmg-america.com)

**Website:** [www.dmg-america.com](http://www.dmg-america.com)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Hazard Statements:

Highly flammable liquid and vapour.

#### 2.2. Label elements

Signal word:

Danger

Pictograms:

GHS02



#### Hazard statements

H225 Highly flammable liquid and vapour.

#### Precautionary statements

P233 Keep container tightly closed.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P102 Keep out of reach of children.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Ethanol.

Sum formula: C<sub>2</sub>H<sub>6</sub>O

Molecular weight: 46,07

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### Hazardous components

| EC No        | Chemical name                                                   | Quantity |
|--------------|-----------------------------------------------------------------|----------|
| CAS No       | Classification according to Directive 67/548/EEC                |          |
| Index No     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |          |
| 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-, H- and EUH-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.

#### Unsuitable extinguishing media

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.

#### 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. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

## 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                   |
| <b>Changes in the physical state</b>     |                           |
| Melting point:                           | ca. -115 °C               |
| Initial boiling point and boiling range: | 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.): > 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: > 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]   [d] | Species       | Source |
| 64-17-5 | ethanol, ethyl alcohol   |              |              |           |               |        |
|         | Acute crustacea toxicity | EC50<br>mg/l | 9268 - 14221 | 48 h      | 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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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 dangerous substances  
Classified as hazardous waste.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 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:** UN 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



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:** UN 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

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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

ENVIRONMENTALLY HAZARDOUS: 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

### Relevant R-phrases (Number and full text)

11 Highly flammable.

### Relevant H- and EUH-phrases (Number and full text)

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

## LuxaBond-Total Etch (Bond A + B)

Product code: 212384 (GHS\_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 + 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 America LLC  
Address: 242 South Dean Street  
Englewood, NJ. 07631  
Telephone no: (800) 662-6383  
(800) 535-5053 (INFOTRAC Emergency number)  
Email address: [info@dmg-america.com](mailto:info@dmg-america.com)  
Website: [www.dmg-america.com](http://www.dmg-america.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/cm³ |

### 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

Aquatic toxicity LC50: > 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

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 dangerous substances  
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.)