

Material Safety Data Sheet

Revision Date: 10.02.2010

(EC 1907/2006)

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1200-22-09

1. Chemical product and company identification

Product name:

LuxaBond (Pre-Bond)

Supplier:

DMG Chemisch-Pharmazeutische Fabrik GmbH

Elbgaustraße 248

22547 Hamburg

Germany

Fon: +49. (0) 40. 84006-0

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info@dmg-dental.com

www.dmg-dental.com

Emergency contact: Infotrac-(800)535-5053

2. Hazards Identification

Flammable

In case of inhalation: High concentrations of vapour may irritate respiratory system, and may cause nausea and dimming of consciousness.

In case of skin contact: Degreases skin.

In case of eye contact : Irritating to eyes.

In case of ingestion: Acts on mucous membrane and central nervous system.

3. Composition / Information on ingredients

Common chemical name / Generic name:

Alcoholic preparation of metal salts of organic acids.

Contains ethanol, CAS - Nr.: 64-17-5

4. First-aid measures

In case of inhalation: Take patient to open air. Let sit down calmly.

In case of skin contact: Wash with soap and water.

In case of eye contact : Immediately rinse with plenty of water, consult a physician.

In case of ingestion: Seek medical advice.

5. Fire-fighting measures

Extinguishing media: Powder, sand, foam, carbon dioxide, water spray.

Not suitable extinguishing media: Direct jet of water.

6. Accidental release measures

Personal precautions: Remove sources of ignition. Local exhaust.

Environmental precautions: Do not empty into drains.

Methods for cleaning up: Take up mechanically, with inert fluid-binding material.

7. Handling and storage

Handling:

Technical measures: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Keep container in a well-ventilated place.

Storage:

Technical measures: Keep container in a well-ventilated place.

Storage conditions: Keep container tightly closed. Keep in a cool place.

Recommended packaging material: Container of glass or metal.

not suitable packaging material: Vapour-permeable plastics.

8. Exposure controls/personal protection

engineering measures: Use only in well-ventilated areas.

Limit values: MAK-threshold 500 ppm.

Personal protective equipment:

respiratory protection: Do not breathe vapour. Filtermask type A (if TLV is exceeded).

Hand and skin protection: Rubber gloves (nitril rubber 0,40 mm).

eye protection: Goggles.

Hygiene measures: When using do not eat or drink.

9. Physical und chemical properties

Appearance: Yellowish liquid

Odour: Characteristic

pH-value: Neutral

Changes in physical state:

Melting temperature: ca. - 120 °C

Boiling temperature: ca. 80 °C

Flashpoint: > 12 °C

Ignition temperature: > 425 °C

Explosion properties: lL: 3,4 Vol %; uL: 15 Vol %

Vapour pressure: ca. 60 mbar

rel. vapour density: > 1

Density: ca. 0.8 g/cm³

Solubility in water: miscible

10 Stability and reactivity

Thermal decomposition: at ca. 80 °C, (boiling)

Hazardous reactions: None, if handled and stored according to directions.

Conditions to avoid: Heat.

Materials to avoid: Oxidizing agents, peroxides acids.

Hazardous decomposition products: Not determined.

11 Toxicological information

Acute oral toxicity: LD₅₀ (oral, rat) > 6200 mg/kg (Ethanol)

LD₅₀ (inhalation: 95.6 mg/l/4 h (Ethanol)

Irritation of skin : Irritating on prolonged exposure.

Irritation of eye: Irritating.

Specific effects: None.

12 Ecological information

Mobility: No data available.

Persistence und degradability: Ethanol easily degradable.

Ecotoxicity: Fish-toxicity: *Leuciscus idus* LC₅₀ > 8140 mg/l / 48 h (Ethanol)

Daphnia toxicity: *Daphnia magna* EC₅₀: 9268 - 14221 mg/l / 48 h

13 Disposal considerations

Waste from residues: Dispose to an authorised waste collection point. Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

Contaminated packaging: Rinse, ventilate thoroughly.

14 Transport information

Regulations for land (road/railroad):

GGVSE: Class 3, II

ADR/RID: Class 3, II

Regulations for inland waterways:

Not tested

Regulations for sea:

IMDG/GGVSee-Code: Class 3; II

EmS: F-E S-D

Regulations for air:

CAO, PAX

ICAO/IATA-DGR: Class 3, II

UN-number: 1170

Additional information:

Proper shipping name: Ethyl alcohol, solution

15 Regulatory information

Labelling according international regulations:

F



Highly
flammable

R-Phrases:

R11 Highly flammable.

S-Phrases:

S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No smoking.

16 Other information

None.

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2223-21-06

1. Chemical product and company identification

Product name:

LuxaBond (Bond A)

Supplier:

DMG Chemisch-Pharmazeutische Fabrik GmbH

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22547 Hamburg

Germany

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www.dmg-dental.com

Emergency contact: Infotrac-(800)535-5053

2. Hazards Identification

None, if handled according to directions.

Irritating to eyes, respiratory system and skin.

May cause sensitization by skin contact.

3. Composition / Information on ingredients

Common chemical name / Generic name:

Aqueous preparation of acrylic resin.

Contains aromatic dimethacrylate, monomethacrylate.

4. First-aid measures

In case of inhalation: In case of prolonged exposure take patient to open air.

In case of skin contact: Wash with soap and water.

In case of eye contact : Rinse with plenty of water, consult a physician.

In case of ingestion: Immediately seek medical advice.

5. Fire-fighting measures

Extinguishing media: Powder, sand, foam, carbon dioxide, water spray.

Not suitable extinguishing media: direct jet of water

6. Accidental release measures

Personal precautions: Use only in well-ventilated areas.

Environmental precautions: Do not empty into drains.

Methods for cleaning up: Take up mechanically, with inert fluid-binding material.

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Trade name: LuxaBond (Bond A)

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7. Handling and storage

Handling:

Technical measures: Keep container tightly closed.

Safe handling advice: Wear suitable gloves. Avoid contact with eyes.

Storage:

Technical measures: Keep container in a well-ventilated place.

Storage conditions: Keep container tightly closed. Keep in a dark, cool place.

Recommended packaging material: Container of glass, metal or solvent-stable plastics.

8. Exposure controls/personal protection

Engineering measures: Use only in well-ventilated areas.

Personal protective equipment:

Respiratory protection: Do not breathe vapour.

Hand and skin protection: Rubber gloves.

Eye protection: Goggles.

Hygiene measures: When using do not eat or drink.

9. Physical und chemical properties

Appearance: Yellowish liquid

Odour: esterlike, weak

pH-value: ca. 7

Changes in physical state:

Boiling temperature: ca. 250 °C

Decomposition temperature: > ca. 200 °C

Flashpoint: > 93 °C

Explosion properties: not established

Vapour pressure: < 1 mbar / 20 °C

Rel. vapour density: not established

Density: ca. 1.1 g/cm³

Solubility in water: ca. 50 %

10 Stability and reactivity

Thermal decomposition: at ca. 200 °C

No decomposition, if handled according to directions.

Hazardous reactions: None, if handled and stored according to directions.

Cures on exposure to visible or UV-light.

Conditions to avoid: Heat, light.

Materials to avoid: Free radicals, reducing agents, heavy metal ions.

Hazardous decomposition products: In case of fire acrid acrylic fumes.

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Trade name: LuxaBond (Bond A)
2223-21-06

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11 Toxicological information

- Acute oral toxicity:** Not completely tested.
For components: LD₅₀ (Ratte) > 5000 mg/kg
- Irritation of skin :** Irritating on prolonged exposure.
- Irritation of eye:** Irritating.
- Specific effects:** Allergic reactions to methacrylates are possible.
May cause sensitization by skin contact.

12 Ecological information

- Do not discharge into drains or the environment.
- Persistence und degradability:** Up to 50 % biologically degradable.
- Ecotoxicity:** Fish toxicity LC₅₀ > 230 mg/l / 96 h.

13 Disposal considerations

- Waste from residues:** Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

14 Transport information

- Additional information:** Not dangerous cargo.

15 Regulatory information

- Labelling according international regulations:** Xi, Irritant. Contains methacrylic ester.

Symbols of danger:

Xi



Irritant

R-Phrases: 36/37/38 - 43

Irritating to eyes, respiratory system and skin.
May cause sensitization by skin contact.

S-Phrases: 26 – 28 - S36/37/39

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

After contact with skin wash immediately with plenty of water and soap.

Wear suitable protective clothing, gloves and eye/face protection.

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16 Other information

None.

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2225-23-11

1. Chemical product and company identification

Product name:

LuxaBond (Bond B)

Supplier:

DMG Chemisch-Pharmazeutische Fabrik GmbH

Elbgaustraße 248

22547 Hamburg

Germany

Fon: +49. (0) 40. 84006-301

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info@dmg-dental.com

www.dmg-dental.com

Emergency contact: Infotrac-(800)535-5053

2. Hazards Identification

None, if handled according to directions.

Irritating to eyes, respiratory system and skin.

May cause sensitization by skin contact.

3. Composition / Information on ingredients

Common chemical name / Generic name:

Aqueous preparation of acrylic resin.

Contains aromatic dimethacrylate, mono-, dimethacrylate, carboxylic methacrylate.

4. First-aid measures

In case of inhalation: In case of prolonged exposure take patient to open air.

In case of skin contact: Wash with soap and water.

In case of eye contact : Rinse with plenty of water, consult a physician.

In case of ingestion: Immediately seek medical advice.

5. Fire-fighting measures

Extinguishing media: Powder, sand, foam, carbon dioxide, water spray.

Not suitable extinguishing media: direct jet of water

6. Accidental release measures

Personal precautions: Use only in well-ventilated areas.

Environmental precautions: Do not empty into drains.

Methods for cleaning up: Take up mechanically, with inert fluid-binding material.

Material Safety Data Sheet

Revision date: 02.03.2009

Trade name: LuxaBond (Bond B)

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7. Handling and storage

Handling:

Technical measures: Keep container tightly closed.

Safe handling advice: Wear suitable gloves. Avoid contact with eyes.

Storage:

Technical measures: Keep container in a well-ventilated place.

Storage conditions: Keep container tightly closed. Keep in a dark, cool place.

Recommended packaging material: Container of glass or solvent-stable plastics.

8. Exposure controls/personal protection

Engineering measures: Use only in well-ventilated areas.

Personal protective equipment:

Respiratory protection: Do not breathe vapour.

Hand and skin protection: Rubber gloves.

Eye protection: Goggles.

Hygiene measures: When using do not eat or drink.

9. Physical und chemical properties

Appearance: Yellowish liquid

Odour: esterlike, weak

pH-value: ca. 3,5

Changes in physical state:

Boiling temperature: ca. 100 °C (water)

Decomposition temperature: > ca. 200 °C

Flashpoint: > 100 °C

Explosion properties: not established

Vapour pressure: < 23 mbar / 20 °C (water)

Rel. vapour density: > 1 (methacrylates)

Density: ca. 1.1 g/cm³

Solubility in water: ca. 50 %

10 Stability and reactivity

Thermal decomposition: at ca. 200 °C

No decomposition, if handled according to directions.

Hazardous reactions: None, if handled and stored according to directions.

Cures on exposure to visible or UV-light.

Conditions to avoid: Heat, light.

Materials to avoid: Free radicals, reducing agents, heavy metal ions.

Hazardous decomposition products: In case of fire acrid acrylic fumes.

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Trade name: LuxaBond (Bond B)

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11 Toxicological information

- Acute oral toxicity:** Not completely tested.
For components: LD₅₀ (rat) > 5000 mg/kg
- Irritation of skin :** Irritating on prolonged exposure.
- Irritation of eye:** Irritating.
- Specific effects:** Allergic reactions to methacrylates are possible.
May cause sensitization by skin contact.

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- Do not discharge into drains or the environment.
- Persistence und degradability:** Up to 50 % biologically degradable.
- Ecotoxicity:** Fish toxicity LC₅₀ > 230 mg/l / 96 h.

13 Disposal considerations

- Waste from residues:** Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

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- Additional information:** Not dangerous cargo.

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- Labelling according international regulations:** Xi, Irritant. Contains methacrylic ester.

Symbols of danger:

Xi



Irritant

R-Phrases: 36/37/38 - 43

Irritating to eyes, respiratory system and skin.
May cause sensitization by skin contact.

S-Phrases: 26 – 28 - S36/37/39

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

After contact with skin wash immediately with plenty of water and soap.

Wear suitable protective clothing, gloves and eye/face protection.

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16 Other information

None.

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