

Safety Data Sheet

according to Regulation (EC) No 1907/2006

EtchingGel

Print date: 20.04.2016

Product code: 6100

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

1.1. Product identifier

EtchingGel

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

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

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

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

2.2. Label elements

Hazardous components which must be listed on the label

Phosphoric acid ... %; orthophosphoric acid

Signal word: Danger

Pictograms: GHS05



Hazard statements

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |

Precautionary statements

| | |
|----------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

PHOSPHORIC ACID

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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 | | |
| 231-633-2 | Phosphoric acid ... %; orthophosphoric acid | 30 - 45 % |
| 7664-38-2 | C - Corrosive R34 | |
| 015-011-00-6 | Skin Corr. 1B; H314 | |

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**

not applicable

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****Additional information**

Material is not combustible.

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

Wear suitable protective clothing.

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

Further information on handling

Ensure adequate ventilation of the storage area.

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.

Advice on storage compatibility

Do not store together with: Alkalis (alkalis). metal.

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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|----------------------|-----|-------------------|-----------|---------------|--------|
| 7664-38-2 | Orthophosphoric acid | - | 1 | | TWA (8 h) | WEL |
| | | - | 2 | | 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

Wear suitable gloves.: NBR (Nitrile rubber). Butyl 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: Jelly
 Colour: blue

Test method

pH-Value: ca. 1

Changes in the physical state

Initial boiling point and boiling range: 100 °C

Flash point: not applicable

Lower explosion limits: not applicable

Upper explosion limits:

Ignition temperature: not applicable

Vapour pressure: 20 hPa
(at 23 °C)Density: 1,4 g/cm³

Water solubility: easily soluble.

Vapour density: < 1

SECTION 10: Stability and reactivity**10.5. Incompatible materials**

Alkalis (alkalis).

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

LD50: Rat. >810mg/kg

Irritation and corrosivity

Irritant effect on the eye: Causes burns.

After skin contact: Causes burns.

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

| CAS No | Chemical name | | | | | |
|-----------|---|--------|----------|-----------|------------------|--------|
| | Aquatic toxicity | Method | Dose | [h] [d] | Species | Source |
| 7664-38-2 | Phosphoric acid ... %; orthophosphoric acid | | | | | |
| | Acute fish toxicity | LC50 | 138 mg/l | 96 h | Gambusia affinis | |

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**

Remove according to the 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**Land transport (ADR/RID)**

14.1. UN number: UN 1805
14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Classification code: C1
Limited quantity: 5 L
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Other applicable information (land transport)

E1

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Marine transport (IMDG)

14.1. UN number: UN 1805
14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: 223
 Limited quantity: 5 L
 EmS: F-A, S-B

Other applicable information (marine transport)

E1

Air transport (ICAO)

14.1. UN number: UN 1805
14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8



Special Provisions: A3
 Limited quantity Passenger: 1 L
 IATA-packing instructions - Passenger: 852
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 856
 IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1

: Y841

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**

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information**Relevant R-phrases (Number and full text)**

34 Causes burns.

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

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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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.)

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LuxaBond-TotalEtch-BondABondB

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

LuxaBond-TotalEtch-BondABondB

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

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory/skin sensitization: Skin Sens. 1

Hazard Statements:

May cause respiratory irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

2.2. Label elements

| | |
|--------------|-------------|
| Signal word: | Danger |
| Pictograms: | GHS05-GHS07 |

**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

| 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 | | |
| | Bis-GMA | 15 - 25 % |
| 1565-94-2 | Xi - Irritant R41-43 | |
| | | |

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.

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 (CO₂).**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 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.

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SECTION 8: Exposure controls/personal protection

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

| | Test method |
|--|-----------------------|
| pH-Value (at 20 °C): | 4.5 - 7 |
| Changes in the physical state | |
| Initial boiling point and boiling range: | 100 °C |
| point of decomposition: | > 200 °C |
| Flash point: | > 100 °C |
| Vapour pressure: (at 20 °C) | 23 hPa |
| Density: | 1,1 g/cm ³ |
| Solubility in other solvents | |
| 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

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

Further information

Substances sensitive to light.

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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.

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

41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.

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

- | | |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| 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.)

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LuxaBond-TotalEtch-PreBond

Print date: 21.04.2016

Product code: 6700

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

1.1. Product identifier

LuxaBond-TotalEtch-PreBond

Product group: Endprodukt
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 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

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: C₂H₆O
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 (CO₂). 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 ³ | 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

Changes in the physical state

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/cm³
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 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.)

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according to Regulation (EC) No 1907/2006

LuxaCoreZ-Dual_LuxaCoreDual

Print date: 21.04.2016

Product code: 2010

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

LuxaCoreZ-Dual_LuxaCoreDual

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

Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory/skin sensitization: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

May cause respiratory irritation.

Causes serious eye damage.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

2.2. Label elements

| | |
|--------------|-------------|
| Signal word: | Danger |
| Pictograms: | GHS05-GHS07 |

**Hazard statements**

| | |
|------|--------------------------------------|
| H335 | May cause respiratory irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| 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. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

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

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Chemical characterization

chemical characterization (preparation): Acrylate.-resin.

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 | | |
| | Dimethacrylate Resin | < 45 % |
| 41637-38-1 | Xi - Irritant R36/37/38-43 | |
| | | |
| | Bis-GMA | 15 - 35 % |
| 1565-94-2 | Xi - Irritant R41-43 | |
| | | |

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.

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 (CO₂).**Unsuitable extinguishing media**

High power water jet.

5.2. Special hazards arising from the substance or mixtureCO_x, NO_x**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.

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

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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****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: | Paste |
| Colour: | yellow |
| Odour: | like: ester |

pH-Value (at 20 °C): not applicable

Changes in the physical state

| | Test method |
|---------------------------------|-----------------------|
| point of decomposition: | > 200 °C |
| Flash point: | > 150 °C |
| Density: | 1.8 g/cm ³ |
| Water solubility: (at 20 °C) | 1 g/L |
| Vapour density: | > 1 |

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**Light. heat.
Decomposition takes place from temperatures above: 200 °C
Decomposition under formation of: Acrylate.

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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. 5000 mg/kg

Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.

Irritant effect on the eye:

Sensitising effects

May cause sensitization by skin contact.

Additional information on tests

Contains Methacrylic esters.: May produce an allergic reaction.

SECTION 12: Ecological information

12.2. Persistence and degradability

Preparation not tested.

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.

Paste: 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): 2 - water contaminating

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SECTION 16: Other information**Relevant R-phrases (Number and full text)**

- 36/37/38 Irritating to eyes, respiratory system and skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.

Relevant H- and EUH-phrases (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.)

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

1.1. Product identifier

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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

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

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

2.3. Other hazards

Do not breathe dust. Dust must be vacuumed up immediately at the place it occurs.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Polymer

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Do not breathe dust.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

After ingestion

Rinse mouth thoroughly with water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Coarse fuel.

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.

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SECTION 7: Handling and storage**7.1. Precautions for safe handling****7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store only in original container.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****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

Do not breathe dust.

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

| | |
|-----------------|--------------------|
| Physical state: | solid |
| Colour: | yellow-transparent |
| Odour: | odourless |

Test method**Changes in the physical state**

| | |
|--|-------------------------------|
| Melting point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Flash point: | No data available |
| Ignition temperature: | No data available ASTM D 1929 |
| Vapour pressure: | No data available |
| Density: | 2 g/cm ³ |
| Water solubility: | No data available |

SECTION 10: Stability and reactivity**10.6. Hazardous decomposition products**CO_x, HX, NO_x, MeO_x**SECTION 11: Toxicological information****11.1. Information on toxicological effects****SECTION 12: Ecological information****12.1. Toxicity**

Toxicological data are not available.

12.2. Persistence and degradability

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No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Toxicological data are not available.

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.

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**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**

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