

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaPrint Model GRY

Revision date: 21.04.2021

Product code: 171294, 171292, 171293 (2510)

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

1.1. Product identifier

LuxaPrint Model GRY

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

Use of the substance/mixture

for dental use only

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 America LLC 242 | |
| Street: | South Dean Street | |
| Place: | Englewood, NJ 07631 | |
| Telephone: | (800) 662-6383 | Telefax: (201) 894-0213 |
| e-mail: | info@dmg-america.com | |
| Internet: | www.dmg-america.com | |
| Responsible Department: | Quality Management | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1B

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Tri-ethylenglycol-dimethacrylate (TEDMA)

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Special labelling of certain mixtures

20 - < 25 % of the mixture consists of ingredient(s) of unknown acute toxicity (inhalation).

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|----------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 109-16-0 | Tri-ethylenglycol-dimethacrylate (TEDMA) | | | 20 - 23 % |
| | 203-652-6 | | 01-2119969287-21 | |
| | Skin Sens. 1B; H317 | | | |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | 2 - 3 % |
| | 278-355-8 | | 01-2119972295-29 | |
| | Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361 H317 H411 | | | |

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 (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

CO_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 allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically.

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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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 |
|------------|-----------------------------------|-----|-------------------|-----------|-----------|--------|
| 1344-28-1 | Aluminium oxides, respirable dust | - | 4 | | TWA (8 h) | WEL |
| 1317-65-3 | Calcium carbonate, inhalable dust | - | 10 | | TWA (8 h) | WEL |
| 13463-67-7 | Titanium dioxide, total inhalable | - | 10 | | TWA (8 h) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|------------------------|--|----------------|----------|------------------------|
| 109-16-0 | Tri-ethylenglycol-dimethacrylate (TEDMA) | | | |
| Worker DNEL, long-term | | inhalation | systemic | 48,5 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 13,9 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--|--|-------------|
| Environmental compartment | | |
| 109-16-0 | Tri-ethylenglycol-dimethacrylate (TEDMA) | |
| Freshwater | | 0,164 mg/l |
| Marine water | | 0,0164 mg/l |
| Freshwater sediment | | 1,85 mg/kg |
| Marine sediment | | 0,185 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 0,274 mg/kg |

8.2. Exposure controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour:
 Odour: like: ester

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: not determined
 Sublimation point: not determined
 Softening point: not determined
 Pour point: not determined
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| | |
|-------------------------|----------------|
| Flash point: | not determined |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Vapour pressure: | not determined |
| Water solubility: | not determined |

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.

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)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix tested

| | | | |
|------------|------------|---------|--------|
| LD50, oral | Dose | Species | Source |
| | 5014 mg/kg | rattus | calc. |

| CAS No | Chemical name | | | | |
|------------|---|-------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 109-16-0 | Tri-ethylenglycol-dimethacrylate (TEDMA) | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | | |
| | dermal | LD50 > 2000 mg/kg | Mouse | | |
| | inhalation | Data lacking | | | |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | SDS | |
| | dermal | LD50 > 2000 mg/kg | Rat | SDS | |
| | inhalation | Data lacking | | | |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Tri-ethylenglycol-dimethacrylate (TEDMA); Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Preparation not tested.

| CAS No | Chemical name | | | | | |
|------------|---|-------------------|-----------|---------------------------------|----------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 109-16-0 | Tri-ethylenglycol-dimethacrylate (TEDMA) | | | | | |
| | Acute fish toxicity | LC50 16,4 mg/l | 96 h | pisc, indet. | OECD 203 | |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD 201 | |
| | Algae toxicity | NOEC 18,6 mg/l | 3 d | Pseudokirchneriella subcapitata | | |
| | Crustacea toxicity | NOEC 32 mg/l | 21 d | daphnia magna | | |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | | | | | |
| | Acute fish toxicity | LC50 6,53 mg/l | 96 h | Oryzias latipes (Ricefish) | SDS | |
| | Acute algae toxicity | ErC50 > 2,01 mg/l | 72 h | Scenedesmus subspicatus | SDS | |
| | Acute crustacea toxicity | EC50 3,53 mg/l | 48 h | Daphnia magna (Big water flea) | SDS | |
| | Acute bacteria toxicity | (> 1000 mg/l) | 3 h | Activated sludge | SDS | |

12.2. Persistence and degradability

Preparation not tested.

| CAS No | Chemical name | | | |
|----------|--|-------|----|-----------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 109-16-0 | Tri-ethylenglycol-dimethacrylate (TEDMA) | | | |
| | Biodegradation | 85 % | 28 | OECD 301B |
| | Biodegradable. | | | |

12.3. Bioaccumulative potential

Preparation not tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|---------|
| 109-16-0 | Tri-ethylenglycol-dimethacrylate (TEDMA) | <= 4 |
| 75980-60-8 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 3,1 |

12.4. Mobility in soil

Preparation not tested.

12.5. Results of PBT and vPvB assessment

Preparation not tested.

12.6. Other adverse effects

Preparation not tested.

Further information

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

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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.

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

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

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

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Sens. 1B; H317 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

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