Safety Data Sheet

according to Regulation (EC) No 1907/2006

LuxaPrint Model

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

1.1. Product identifier

LuxaPrint Model

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 Digital Enterprises SE	
Street:	Elbgaustrasse 248	
Place:	D-22547 Hamburg	
Telephone:	+49 40 84006-0	Telefax: +49 40 84006-222
e-mail:	info@dmg-digital.com	
Internet:	www.dmg-digital.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
Hazard Statements:
May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Tri-ethylenglycol-dimethacrylate (TEDMA)
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide

Signal word: Warning

Pictograms:

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P280 Wear protective gloves and eye/face protection.

Special labelling of certain mixtures

1 - < 5 % of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).
20 - < 25 % of the mixture consists of ingredient(s) of unknown acute toxicity (inhalation).

SECTION 3: Composition/information on ingredients

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)			10 - 25 %
	203-652-6		01-2119969287-21	
	Skin Sens. 1B; H317			
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide			< 1 %
	423-340-5		01-2119489401-38	
	Skin Sens. 1, Aquatic Chronic 4; H317 H413			

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

COx, NOx

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.

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/m³	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
1344-28-1	Aluminium oxides, respirable dust	-	4		TWA (8 h)	WEL
1317-65-3	Calcium carbonate, inhalable dust	-	10		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)		
Worker DNEL, long-term	inhalation	systemic	48,5 mg/m³
Worker DNEL, long-term	dermal	systemic	13,9 mg/kg bw/day

PNEC values

CAS No	Substance
Environmental compartment	Value
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

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:	not determined	
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	
point of decomposition:	> 200 °C	estim.
Flash point:	> 100 °C	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1.1 g/cm³	calc.
Water solubility: (at 20 °C)	not determined	
Vapour density:	> 1	

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Light. heat.
Decompostion 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)

Further information

Substances sensitive to light.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.
LD50: Rat > 4800 mg/kg (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			
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide				
	oral	LD50 > 2000 mg/kg	rattus	MSDS	
	dermal	LD50 > 2000 mg/kg	rattus		

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); Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide)
May cause sensitization by skin contact.

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.

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.

Additional information on tests

Contains Methacrylic esters.: May produce an allergic reaction.

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	
	Algea toxicity	NOEC	18,6 mg/l	3 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC	32 mg/l	21 d	daphnia magna		
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide						
	Acute fish toxicity	LC50	> 90 mg/l	96 h	B. rerio	MSDS	
	Acute algae toxicity	ErC50	> 260 mg/l	72 h	D. subspicatus	MSDS	
	Acute crustacea toxicity	EC50	> 1,175 mg/l	48 h	D. magna	MSDS	
	Acute bacteria toxicity	(> 100 mg/l)		3 h	Belebtschlamm	MSDS	

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.			
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide			
		1 %	29	

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
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide	5,8

BCF

CAS No	Chemical name	BCF	Species	Source
162881-26-7	Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide	< 5	C. carpio	

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.

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 harzardous 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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

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

Relevant H and EUH statements (number and full text)

H317 May cause an allergic skin reaction.
H413 May cause long lasting harmful effects to aquatic life.

Further Information

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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.)