

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LC-base plate

Revision date: 11.06.2021

Product code: 0000LC018

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

LC base plate

Product group: Dental tray material (medical device)

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

Light-cure impression tray material for the fabrication of custom trays, bite plates and base plates for needle-point tracing.

1.3. Details of the supplier of the safety data sheet

Company name: MEGADENTA Dentalprodukte GmbH

Street: Carl-Eschebach-Str. 1A

Place: 01454 Radeberg, Germany

Telephone: +49-3528 4530

e-mail: info@megadenta.de

Internet: www.megadenta.de

Exclusive distribution: Müller-Omicron GmbH & Co.KG

Schlosserstr. 1

D-51789 Lindlar, Germany

Tel. +49 (0) 2266 4742-0

info@mueller-omicron.de

www.mueller-omicron.com**1.4. Emergency telephone number:** +49-3528 453-0 (just during usual office time: GMT+1)**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. 1

Hazard Statements:

May cause an allergic skin reaction.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Diurethane Dimethacrylate

Aliphatic Urethane Acrylate

Signal word: Warning**Pictograms:****Hazard statements**

May cause an allergic skin reaction.

Precautionary statements

Protect from sunlight.

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

Contaminated work clothing should not be allowed out of the workplace.

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

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

IF ON SKIN: Wash with plenty of water.

Special labelling of certain mixtures

Restricted to professional users.

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2.3. Other hazards

No information available.

Water hazard class 2 - Hazardous to the aquatic environment.

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

Matrix of polyfunctional methacrylates, glass, photochemical initiators and petroleum jelly.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
72869-86-4	Diurethane Dimethacrylate			10 - < 15 %
	276-957-5		01-2120751202-68	
	Skin Sens. 1; H317			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			< 0.1 %
	278-355-8	015-203-00-X		
	Repr. 2; H361f			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
75980-60-8	278-355-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	< 0.1 %
	inhalation: Data lacking (gases); oral: LD50 = >5000 mg/kg		

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Polymerized material is non-hazardous.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Not applicable as all components have got a boiling point above 250°C.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin: wash with water and soap.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust. The unprotected substance must not be exposed to the light before processing, because it polymerizes. Only adequately trained personnel should handle this product. For use in dentistry only.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Light-sensitive substance. Protect from exposure to the light. Store not above 25°C.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Megatray is a light curing tray material for the fabrication of individual custom trays with extremely high dimensional stability.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
Worker DNEL, long-term	dermal	systemic	0,233 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,145 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,0833 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,0833 mg/kg bw/day

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls**Appropriate engineering controls**

Use a suitable dust extraction when grinding the polymerized plate.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

Physical state: paste
 Colour: white-gray transparent, pink, blue
 Odour: characteristic

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: -20 °C
 Boiling point or initial boiling point and boiling range: 200 °C
 Flash point: > 100 °C

Flammability

Solid/liquid: not applicable

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Gas:	not applicable
Lower explosion limits:	not determined VDI 2263
Upper explosion limits:	not determined VDI 2263
Auto-ignition temperature:	445 °C
Self-ignition temperature	
Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidising.	
Vapour pressure: (at 20 °C)	1 hPa
Density:	1,89 g/cm ³
Water solubility:	insoluble
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Flow time:	Data not available
Relative vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

Solid content:	76,15 %
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Material will polymerize when exposed to daylight.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Direct light.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

With incomplete combustion toxic gases such as carbon monoxide may be generated.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

ATEmix tested

	Dose	Species	Source
LD50, oral	5000 mg/kg	Rat	
LD50, dermal	2000 mg/kg	Rat	

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
	oral	LD50 >5000 mg/kg	Rat		
	inhalation	Data lacking			

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Diurethane Dimethacrylate)

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Acute fish toxicity	LC50 6,53 mg/l	96 h	Oryzias latipes		
	Acute algae toxicity	ErC50 2,01 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50 3,53 mg/l	48 h	Daphnia magna	OECD Guideline 202	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72869-86-4	Diurethane Dimethacrylate	3
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,257

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

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12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
Water hazard class 2 - Hazardous to the aquatic environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Plastics

List of Wastes Code - used product

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Plastics

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**14.6. Special precautions for user**

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC):	11,38 % (215,082 g/l)
2004/42/EC (VOC):	12,104 % (228,766 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	3 - highly hazardous to water
Skin resorption/Sensitization:	Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route

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(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

May cause an allergic skin reaction.

Suspected of damaging fertility.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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