

medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 1 of 11

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

1.1. Product identifier

medicalprint® shell beige

UFI:

RWM0-S1KJ-C009-A5DA

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

Use of the substance/mixture

Ligth curing one component material for the fabrication of earmoulds.

1.3. Details of the supplier of the safety data sheet

Company name:	DETAX GmbH & Co. KG	
Street:	Carl-Zeiss-Straße 4	
Place:	D-76275 Ettlingen	
Telephone:	+49 7243/510-0	Telefax: +49 7243/510-100
e-mail:	post@detax.de	
Internet:	www.detax.de	
Responsible Department:	Emergency number:	
	+49 7243/510-0	
	This number is only obtainable - 5.00 p.m., Friday 8.00 a.m	during office hours (Monday - Thursday 8.00 a.m. 4.00 p.m.)
1.4. Emergency telephone	+49 7243/510-0	
number:	This number is only obtainable - 5.00 p.m., Friday 8.00 - 4.00	during office hours (Monday - Thursday 8.00 a.m. p.m.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Reproductive toxicity: Repr. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008



according to Regulation (EC) No 1907/2006

medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 2 of 11

Hazard components for labelling

isopropylidenediphenol peg-2 dimethacrylate

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate Urethane Dimethacrylate

Hydroxy propyl methacrylate

tetrahydrofurfuryl methacrylate THFMA purified grade

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

2-hydroxyethyl methacrylate

aliphatic urethane acrylate

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Warning

Signal word:

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/ container in accordance with local and national regulations.
Special labelling of c	ertain mixtures

EUH210

Safety data sheet available on request.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of acrylic/ methacrylic resins with auxilliary matters.



according to Regulation (EC) No 1907/2006

medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 3 of 11

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
41637-38-1	isopropylidenediphenol peg-2 dime	ethacrylate		35 - < 40 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1A, STOT SE 3; H315 H319 H	1317 H335	
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo	-3,14-dioxa-5,12-diazahexade	cane-1,16-diyl bismethacrylate	20 - < 25 %
	276-957-5		01-2120751202-68	
	Skin Sens. 1B, Aquatic Chronic 2;	H317 H411		
	Urethane Dimethacrylate			15 - < 20 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1, STOT SE 3; H315 H319 H3	317 H335	
72829-09-5	1,12-Dodecanediol Dimethacrylate			5 - < 10 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319)		
27813-02-1	Hydroxy propyl methacrylate	1 - < 5 %		
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H3	17		
2455-24-5	tetrahydrofurfuryl methacrylate TH	1 - < 5 %		
	Repr. 2, Skin Irrit. 2, Eye Irrit. 2, Sk	in Sens. 1, STOT SE 3; H361	H315 H319 H317 H335	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)ph	1 - < 5 %		
	278-355-8	015-203-00-X		
	Repr. 2, Skin Sens. 1B, Aquatic Ch	nronic 2; H361f H317 H411		
2143103-44-8	aliphatic urethane acrylate			1 - < 5 %
	944-336-4		01-2120266262-60	
	Skin Sens. 1B, Aquatic Chronic 3;	H317 H412		
868-77-9	2-hydroxyethyl methacrylate	< 1 %		
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1; H315 H319 H317		
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-	< 1 %		
	423-340-5	015-189-00-5	01-2119489401-38	
	Skin Sens. 1, Aquatic Chronic 4; H			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

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.



medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 4 of 11

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

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

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

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). 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. Do not breathe gas/fumes/vapour/spray.

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. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.



medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 5 of 11

Hints on joint storage

Keep away from spontaneous flammable or combustible substances.

Further information on storage conditions

Keep only in the original container in a dry and well-ventilated place, away from foodstuffs. Keep away from all kind of ligth. An inert gas blanket should not be applied, because the stability of the product depends on the presence of oxygen (air).

7.3. Specific end use(s)

Ligth curing material for the generative manufacturing of earmoulds. For use by trained specialist staff.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

Suitable eye protection: goggles.

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.

Suitable are gloves of the following material: Butyl caoutchouc (butyl rubber)

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: Colour:	liquid: beige		
Odour:	faintly like esters		
			Test method
pH-Value:		not determined	
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range:		not determined	
Flash point:		>100 °C	DIN 51755
Flammability Solid:		not applicable	



	medicalprint® shell beige	
Revision date: 17.12.2020	Product code: 1005	Page 6 of 11
Gas:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Auto-ignition temperature Solid: Gas: Decomposition temperature:	not applicable not applicable >=190 °C	
Oxidizing properties Not oxidizing.	2-190 0	
Vapour pressure: (at 20 °C)	<1 hPa	
Density (at 20 °C):	1,09 g/cm³	DIN 51757
Water solubility:	insoluble	
Solubility in other solvents not determined		
Partition coefficient:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
9.2. Other information		
Solid content:	not determined	
SECTION 10: Stability and reactivity		

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with : strong oxidising agents, strong alcaline or acidic materials.

10.4. Conditions to avoid

Ultra-violet ligth and dayligth initiate polymerisation of the product. Therefore keep only in tigthly closed containers away from any sources of ligth at 15° C - 28° C / 59° F - 82° F.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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



according to Regulation (EC) No 1907/2006

medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 7 of 11

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4	1,13-dioxo-3,	14-dioxa-5,1	2-diazahexadecane-1,16-	diyl bismethacrylate	
	oral	LD50 mg/kg	>5000	Rat	OECD 401	
	dermal	LD50 mg/kg	>2000	Rat	OECD 402	
27813-02-1	Hydroxy propyl methacry	late				
	oral	LD50 mg/kg	>2000	Rat	OECD 401	
	dermal	LD50 mg/kg	>5000	Rabbit		
75980-60-8	diphenyl(2,4,6-trimethylb	enzoyl)phosp	hine oxide			
	oral	LD50 mg/kg	>5000	Rat		
	dermal	LD50 mg/kg	>2000	Rat		
2143103-44- 8	aliphatic urethane acryla	te				
	oral	LD50 mg/kg	>5000	Ratte	Lieferanten-Sicherheit sdatenblatt	OECD 401
868-77-9	2-hydroxyethyl methacry	late				
	oral	LD50 mg/kg	5050	Rat		
162881-26-7	phenyl bis(2,4,6-trimethy	lbenzoyl)-pho	osphine oxid	e		
	oral	LD50 mg/kg	>2000	Rat	OECD 401	
	dermal	LD50 mg/kg	>2000	Rat	OECD 402	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (isopropylidenediphenol peg-2 dimethacrylate; 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate; Urethane Dimethacrylate; Hydroxy propyl methacrylate; tetrahydrofurfuryl methacrylate THFMA purified grade; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; aliphatic urethane acrylate; 2-hydroxyethyl methacrylate; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child. (tetrahydrofurfuryl methacrylate THFMA purified grade; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

STOT-single exposure

May cause respiratory irritation. (isopropylidenediphenol peg-2 dimethacrylate)

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.



medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 8 of 11

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate						
	Acute crustacea toxicity	EC50 mg/l	>1,2	48 h	Daphnia magna (Big water flea)	OECD 202	
27813-02-1	Hydroxy propyl methacryl	ate					
	Acute fish toxicity	LC50	493 mg/l	96 h	Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 mg/l	>97,2	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50	380 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
2455-24-5	tetrahydrofurfuryl methacr	ylate THFM	A purified gra	ade			
	Acute fish toxicity	LC50 mg/l	34,7	96 h		GESTIS	
75980-60-8	diphenyl(2,4,6-trimethylbe	nzoyl)phosp	ohine oxide	-			
	Acute algae toxicity	ErC50 mg/l	>2,01	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(>1000 m	ng/l)	3 h	Activated sludge		
2143103-44- 8	aliphatic urethane acrylate)		_			
	Acute fish toxicity	LC50	18 mg/l	96 h	Oncorhynchus mykiss	Lieferanten-SDB	OECD 203
	Acute crustacea toxicity	EC50 mg/l	15.9	48 h	Daphnia magna	Lieferanten-SDB	OECD 202
	Acute bacteria toxicity	(25.4 mg	/l)		Pseudokirchneriella subcapitata	Lieferantern-SDB	OECD 201
868-77-9	2-hydroxyethyl methacryla	ite					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas		
162881-26-7	phenyl bis(2,4,6-trimethyll	penzoyl)-pho	osphine oxide	e		•	
	Acute fish toxicity	LC50 mg/l	>0,09	96 h	Brachydanio rerio (zebra-fish)	OECD 203	
	Acute algae toxicity	ErC50 mg/l	>0,26	72 h	Desmodesmus subspicatus.	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	>1,175	48 h	Daphnia magna (Big water flea)	OECD 202	
	Crustacea toxicity	NOEC mg/l	>0,008	21 d	Daphnia magna (Big water flea)	OECD 211	
	Acute bacteria toxicity	(>100 mg	g/l)	3 h	OECD 209		

12.2. Persistence and degradability

The product has not been tested.



according to Regulation (EC) No 1907/2006

medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 9 of 11

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation	-			
72829-09-5	1,12-Dodecanediol Dimethacrylate				
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	90 %	28		
27813-02-1	Hydroxy propyl methacrylate				
	OECD	94%	28		
	Readily biodegradable (according to OECD criteria).				
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
		0-10%	28		
	Not readily biodegradable (according to OECD criteria)				
868-77-9	2-hydroxyethyl methacrylate				
	84	%	28		
	Leicht biologisch abbaubar				
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide				
	CO2 formation (% of the theoretical value).	1%	29		
	Not readily biodegradable (according to OECD criteria)				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
27813-02-1	Hydroxy propyl methacrylate	0,97
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1
868-77-9	2-hydroxyethyl methacrylate	0,47
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	5,8

BCF

CAS No	Chemical name	BCF	Species	Source
72829-09-5	1,12-Dodecanediol Dimethacrylate	1230		
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphi ne oxide	47-55	Cyprinus carpio (Common Carp)	
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	<5	Cyprinus carpio (Common Carp)	OECD 305

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

Not identivied as PBT/ vPvB substances

12.6. 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.

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.



medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

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Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

National regulatory information

Employment restrictions:

Water hazard class (D):

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. 3 - strongly hazardous to water Skin resorption/Sensitization: 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 (European Agreement concerning the International Carriage of Dangerous Goods by Road)



according to Regulation (EC) No 1907/2006

medicalprint® shell beige

Revision date: 17.12.2020

Product code: 1005

Page 11 of 11

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%

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH210	Safety data sheet available on request.

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.)