

according to Regulation (EC) No 1907/2006

# freeprint® denture UV

Revision date: 05.12.2018

Product code: 1115

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

### 1.1. Product identifier

freeprint® denture UV

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

## Use of the substance/mixture

Light curing resin for the generative fabrication of denture bases.

#### 1.3. Details of the supplier of the safety data sheet

Company name:	DETAX GmbH & Co. KG	
Street: Place:	Carl-Zeiss-Strasse D-76275 Ettlingen	
Telephone: e-mail: Internet: Responsible Department:	+49 7243/510-0 post@detax.de www.detax.de Emergency number: +49 7243/510-0	Telefax:+49 7243/510-100
	This number is only obtainable during office ho - 5.00 p.m., Friday 8.00 a.m 4.00 p.m.)	urs (Monday - Thursday 8.00 a.m.
1.4. Emergency telephone number:	+49 7243/510-0 This number is only obtainable during office ho - 5.00 p.m., Friday 8.00 - 4.00 p.m.)	urs (Monday - Thursday 8.00 a.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. 1A Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

#### 2.2. Label elements

## Regulation (EC) No. 1272/2008

Hazard components for labelling isopropylidenediphenol peg-2 dimethacrylate 2-hydroxyethyl methacrylate diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Hydroxy propyl methacrylate phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

# Signal word:

## Pictograms:



Warning



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## Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Precautionary statements

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/ container in accordance with local and national regulations.

## 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.

## Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regula			
41637-38-1	isopropylidenediphenol peg-2 dim	ethacrylate		35 - < 60 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens	. 1A, STOT SE 3; H315 H31	9 H317 H335	
6606-59-3	1,6-hexanediol dimethacrylate			1 - < 5 %
	229-551-7			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE	3; H315 H319 H335		
868-77-9	2-hydroxyethyl methacrylate	1 - < 5 %		
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens	. 1; H315 H319 H317		
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)pl	1 - < 5 %		
	278-355-8	015-203-00-X	01-2119972295-	
	Repr. 2, Skin Sens. 1, Aquatic Ch			
27813-02-1	Hydroxy propyl methacrylate	1 - < 5 %		
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H3			
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; I			
Full text of H	and EUH statements: see section	16		

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

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures



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#### 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.

#### 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.



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## 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.

#### Advice on storage compatibility

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)

Light curing resin for the generative fabrication of denture bases. 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:	liquid:
Colour:	gingiva coloured
Odour:	faintly like esters

pH-Value:

Test method

not determined

#### Changes in the physical state

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Melting point:	not determined	
Initial boiling point and boiling range:	not determined	
Flash point:	>100 °C	DIN 51755
Flammability		
Solid:	not applicable	
Gas:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Auto-ignition temperature Solid: Gas:	not applicable not applicable	
Decomposition temperature:	>=190 °C	
Oxidizing properties Not oxidizing.		
Vapour pressure: (at 20 °C)	<1 hPa	
Density (at 20 °C):	1,1 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**

#### 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.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
868-77-9	2-hydroxyethyl methacryl	ate			-	
	oral	LD50 5050 mg/kg	)	Rat		
	dermal	LD50 >300 mg/kg	00	Rabbit		
75980-60-8	diphenyl(2,4,6-trimethylbe	enzoyl)phosphine	oxide		_	_
	oral	LD50 >500 mg/kg	00	Rat		
	dermal	LD50 >200 mg/kg	00	Rat		
27813-02-1	Hydroxy propyl methacry	ate				
	oral	LD50 >200 mg/kg	00	Rat	OECD 401	
	dermal	LD50 >500 mg/kg	00	Rabbit		
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide					
	oral	LD50 >200 mg/kg	00	Rat	OECD 401	
	dermal	LD50 >200 mg/kg	00	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; 2-hydroxyethyl methacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; Hydroxy propyl methacrylate; phenyl bis(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

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.

## Additional information on tests

This 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.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
868-77-9	2-hydroxyethyl methacryla	ate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas		
75980-60-8	diphenyl(2,4,6-trimethylbe	enzoyl)phos	phine oxide				
	Acute algae toxicity	ErC50 mg/l	>2,01	72 h			
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(>1000 r	ng/l)		Activated sludge		
27813-02-1	Hydroxy propyl methacryl	ate					
	Acute fish toxicity	LC50	493 mg/l		Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 mg/l	>97,2		Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50	380 mg/l		Daphnia magna (Big water flea)	OECD 202	
162881-26-7	phenyl bis(2,4,6-trimethyl	benzoyl)-ph	osphine oxid	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		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 m	g/l)	3 h	OECD 209		

## 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
868-77-9	2-hydroxyethyl methacrylate						
	84	%	28				
	Leicht biologisch abbaubar						
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide						
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	<20%	28				
	Poorly biodegradable.						
27813-02-1	Hydroxy propyl methacrylate						
	OECD	94%	28				
	Readily biodegradable (according to OECD criteria).						
162881-26-7	i-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.



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#### Partition coefficient n-octanol/water

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

#### BCF

CAS No	Chemical name	BCF	Species	Source
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		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

#### Advice on disposal

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.

#### Contaminated packaging

Non-contaminated packages may be recycled. 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:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	-			
14.3. Transport hazard class(es):					
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
14.6. Special precautions for user					
No dangerous good in sense o	f this transport regulation.				
14.7. Transport in bulk according to	Annex II of Marpol and the IBC Code				
No dangerous good in sense o	f this transport regulation.				
SECTION 15: Regulatory information	ition				
15.1. Safety, health and environment	tal regulations/legislation specific for the substance or mixture				
National regulatory information					
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile				
	work protection guideline' (94/33/EC).				
Water contaminating class (D):	3 - highly water contaminating				
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 t	ransport des marchandises dangereuses par Route				
· · ·	ing the International Carriage of Dangerous Goods by Road)				
IMDG: International Maritime C					
IATA: International Air Transpo	rt Association stem of Classification and Labelling of Chemicals				
	of Existing Commercial Chemical Substances				
ELINCS: European List of Noti					
CAS: Chemical Abstracts Serv	ice				
LC50: Lethal concentration, 50	%				
LD50: Lethal dose, 50%					
	d evaluation method according to Regulation (EC) No. 1272/2008 [CLP]	1			
	Classification procedure				
,	Calculation method				
<b>,</b>	Calculation method				
Skin Sens. 1A; H317	Calculation method				
STOT SE 3; H335	Calculation method	1			

## 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.

#### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary 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.)