

according to Regulation (EC) No 1907/2006

freeprint® gingiva UV

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

1.1. Product identifier

freeprint® gingiva 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 flexible gingival masks for models.

1.3. Details of the supplier of the safety data sheet

Company name: DETAX GmbH & Co. KG
Street: Carl-Zeiss-Strasse
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 during office hours (Monday - Thursday 8.00 a.m.

- 5.00 p.m., Friday 8.00 a.m. - 4.00 p.m.)

1.4. Emergency telephone +49 7243/510-0

number: This number is only obtainable during office hours (Monday - Thursday 8.00 a.m.

- 5.00 p.m., Friday 8.00 - 4.00 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

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

2-[[(butylamino)carbonyl]oxy]ethyl acrylate

Hydroxy propyl methacrylate Urethane Dimentacrylate

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

2-hydroxyethyl methacrylate

Signal word: Warning

Pictograms:







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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.

H411 Toxic to aquatic life with long lasting effects.

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.

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.

P391 Collect spillage.

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.



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Hazardous components

Chemical name					
EC No	Index No	REACH No			
Classification according to Regulati					
2-[[(butylamino)carbonyl]oxy]ethyl a	acrylate		25 - < 30 %		
264-036-0		01-2120751208-			
Acute Tox. 4, Skin Sens. 1, Aquatic	Chronic 2; H332 H317 H411				
Hydroxy propyl methacrylate			15 - < 20 %		
248-666-3		01-2119490226-37			
Eye Irrit. 2, Skin Sens. 1; H319 H31	7				
Urethane Dimentacrylate			10 - < 15 %		
Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1, STOT SE 3; H315 H319 H317 H3	35			
dodecyl methacrylate			5 - < 10 %		
205-570-6	607-247-00-9	01-2119489778-11			
Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 H410	, Aquatic Acute 1, Aquatic Chronic 1	; H315 H319 H335 H400			
diphenyl(2,4,6-trimethylbenzoyl)pho	osphine oxide		1 - < 5 %		
278-355-8	015-203-00-X				
Repr. 2, Skin Sens. 1B, Aquatic Ch	ronic 2; H361f H317 H411				
2-hydroxyethyl methacrylate			< 1 %		
212-782-2	607-124-00-X				
Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1; H315 H319 H317	•			
"BHT; butylated hydroxytoluene"			< 1 %		
204-881-4					
Aquatic Acute 1, Aquatic Chronic 1; H400 H410					
	EC No Classification according to Regulati 2-[[(butylamino)carbonyl]oxy]ethyl a 264-036-0 Acute Tox. 4, Skin Sens. 1, Aquatic Hydroxy propyl methacrylate 248-666-3 Eye Irrit. 2, Skin Sens. 1; H319 H31 Urethane Dimentacrylate Skin Irrit. 2, Eye Irrit. 2, Skin Sens. dodecyl methacrylate 205-570-6 Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 H410 diphenyl(2,4,6-trimethylbenzoyl)pho 278-355-8 Repr. 2, Skin Sens. 1B, Aquatic Ch 2-hydroxyethyl methacrylate 212-782-2 Skin Irrit. 2, Eye Irrit. 2, Skin Sens. "BHT; butylated hydroxytoluene" 204-881-4	EC No Classification according to Regulation (EC) No. 1272/2008 [CLP] 2-[[(butylamino)carbonyl]oxy]ethyl acrylate 264-036-0 Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 2; H332 H317 H411 Hydroxy propyl methacrylate 248-666-3 Eye Irrit. 2, Skin Sens. 1; H319 H317 Urethane Dimentacrylate Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H3 dodecyl methacrylate 205-570-6 607-247-00-9 Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1 H410 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 278-355-8 015-203-00-X Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411 2-hydroxyethyl methacrylate 212-782-2 607-124-00-X Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317 "BHT; butylated hydroxytoluene" 204-881-4	EC No		

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.

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.





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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.

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 flexible gingival masks for models.

For use by trained specialist staff.

SECTION 8: Exposure controls/personal protection

DETAX GmbH & Co. KG



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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
		-	-		STEL (15 min)	WEL

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

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
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable

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>=190 °C

Gas: not applicable

Oxidizing properties

Decomposition temperature:

Not oxidizing.

Vapour pressure: ca. 1 hPa

(at 20 °C)

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., oxidising agents, radicals forming substances or heavy metal ions.

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
63225-53-6	2-[[(butylamino)carbo	nyl]oxy]ethyl ac	rylate			
	oral	LD50 5000 mg/k	2000- g	Rat	OECD 423	
	inhalation vapour	ATE	11 mg/l			
	inhalation aerosol	ATE	1,5 mg/l			
27813-02-1	Hydroxy propyl metha	crylate				
	oral	LD50 mg/kg	>2000	Rat	OECD 401	
	dermal	LD50 mg/kg	>5000	Rabbit		
142-90-5	dodecyl methacrylate					
	oral	LD50 mg/kg	>5000	Rat	OECD 401	
	dermal	LD50 mg/kg	>3000	Rabbit		
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	oral	LD50 mg/kg	>5000	Rat		
	dermal	LD50 mg/kg	>2000	Rat		
868-77-9	2-hydroxyethyl methacrylate					
	oral	LD50 mg/kg	5050	Rat		
	dermal	LD50 mg/kg	>3000	Rabbit		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (2-[[(butylamino)carbonyl]oxy]ethyl acrylate; Hydroxy propyl methacrylate; Urethane Dimentacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; 2-hydroxyethyl methacrylate)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation.

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
63225-53-6	2-[[(butylamino)carbonyl]oxy]ethyl acrylate						
	Acute fish toxicity	LC50 mg/l	2,52	96 h	OECD 203		
	Acute algae toxicity	ErC50 mg/l	5,98	72 h	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	18,6	48 h	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	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine 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 r	mg/l)	3 h	Activated sludge		
868-77-9	2-hydroxyethyl methacryla	ate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas		
128-37-0	"BHT; butylated hydroxyto	luene"					
	Acute crustacea toxicity	EC50 mg/l	0,61	48 h	Daphnia ssp	OECD 202	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
07.07.10	Method	Value	d	Source
	Evaluation	·!		
63225-53-6	2-[[(butylamino)carbonyl]oxy]ethyl acrylate			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	15%	28	
27813-02-1	Hydroxy propyl methacrylate			
	OECD	94%	28	
	Readily biodegradable (according to OECD criteria).			
142-90-5	dodecyl methacrylate			
	OECD 201	88,5%	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			

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
63225-53-6	2-[[(butylamino)carbonyl]oxy]ethyl acrylate	1,82
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
128-37-0	"BHT; butylated hydroxytoluene"	5,1

BCF

CAS No	Chemical name	BCF	Species	Source
142-90-5	dodecyl methacrylate	37	Brachydanio rerio (zebra-fish)	OECD 305
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphi ne oxide	47-55	Cyprinus carpio (Common Carp)	

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: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Contains: 2-[[(butylamino)carbonyl]oxy]ethyl acrylate

9 14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 9 Classification code: M6 Limited quantity: 5 L/30 kg Excepted quantity: E1 Transport category: 3 Hazard No: 90 Tunnel restriction code:

Other applicable information (land transport)

Contains: 2-[[(butylamino)carbonyl]oxy]ethyl acrylate

Marine transport (IMDG)

DETAX GmbH & Co. KG



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14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Enthält: 2-[[(Butylamino)carbonyl]oxy]ethylacrylat

 14.3. Transport hazard class(es):
 9

 14.4. Packing group:
 III

 Hazard label:
 9

Other applicable information (marine transport)

Contains: 2-[[(Butylamino)carbonyl]oxy]ethylacrylat

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Contains: 2-[[(butylamino)carbonyl]oxy]ethyl acrylate

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9Limited quantity Passenger:30 kg GPassenger LQ:Y964

Passenger LQ: Y964
Excepted quantity: E1

IATA-packing instructions - Passenger:964IATA-max. quantity - Passenger:450 LIATA-packing instructions - Cargo:964IATA-max. quantity - Cargo:450 L

Other applicable information (air transport)

Contains: 2-[[(Butylamino)carbonyl]oxy]ethylacrylat

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

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: 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

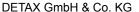
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

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

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





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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			
STOT SE 3; H335	Calculation method			
Aquatic Chronic 2; H411	Calculation method			

Relevant H and EUH statements (number and full text)

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

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

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.)