

### VITA VIONIC® BASE RESIN FLEX clear

Revision date: 27.08.2025

Product code: 3149

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## 1. Identification

### Product identifier

VITA VIONIC® BASE RESIN FLEX clear

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Light-curing plastic for the generative manufacture of removable dental prosthesis bases.

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

#### **Manufacturer**

Company name: DETAZ GmbH  
Street: Carl-Zeiss-Strasse 4  
Place: D-76275 Ettlingen  
Telephone: +497243/510-0  
E-mail: post@detax.com  
Internet: www.detax.com

#### **Supplier**

Company name: VITA Zahnfabrik H.Rauter GmbH & Co.KG  
Street: Spitalgasse 3  
Place: D-79713 Bad Säckingen  
Telephone: +49(0)7761-562-0  
E-mail: info@vita-zahnfabrik.com  
Contact person: regulatory affairs  
E-mail: info@vita-zahnfabrik.com  
Internet: www.vita-zahnfabrik.com  
Responsible Department: Regulatory Affairs  
Telephone: +49(0)7761-562-299

### Emergency phone number:

### Further Information

medical device

## 2. Hazard(s) identification

### Classification of the chemical

#### **29 CFR Part 1910.1200**

Reproductive toxicity: Repr. 2  
Skin corrosion/irritation: Skin Corr. 1  
Serious eye damage/eye irritation: Eye Dam. 1  
Respiratory or skin sensitization: Skin Sens. 1

### Label elements

#### **29 CFR Part 1910.1200**

Signal word: Danger

Pictograms:



### Hazard statements

Causes severe skin burns and eye damage

May cause an allergic skin reaction

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Suspected of damaging fertility or the unborn child

#### Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash ... thoroughly after handling.

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

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

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin: Wash with plenty of ....

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Specific treatment (see ... on this label).

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center/doctor.

Specific treatment (see ... on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container to ....

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Chemical characterization

Mixture of acrylic/methacrylic resins with additives

#### Relevant ingredients

CAS No	Components	Quantity
72869-86-4	7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylate	40- < 60%
7534-94-3	Isobornylmethacrylat	5 - < 20%
127823-21-6	(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate	5 - < 20%
27813-02-1	Hydroxypropylmethacrylat	5 - < 20%
868-77-9	2-hydroxyethyl methacrylate	0,1 < 5 %
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate	0,1 < 5 %

### 4. First-aid measures

#### Description of first aid measures

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Seek medical advice immediately.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### 5. Fire-fighting measures

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#### Extinguishing media

#### Special protective equipment and precautions for fire-fighters

Wear protective clothing. Use self-contained breathing apparatus. Wear full protective equipment.

## 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

##### **General advice**

Avoid contact with eyes and skin.

## 7. Handling and storage

#### Precautions for safe handling

##### **Advice on safe handling**

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

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

#### Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

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

##### **Hints on joint storage**

Do not store together with: Strong acid Highly oxidising substances

##### **Further information on storage conditions**

Store in a dry place. Store in a closed container. Sensitivity to light (photosensitive). Do not store under inert gas, as oxygen (air) is required for stabilization.

## 8. Exposure controls/personal protection

#### Control parameters

#### Exposure controls

##### **Appropriate engineering controls**

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

#### Individual protection measures, such as personal protective equipment

##### **Eye/face protection**

Eye protection Wear eye/face protection.

##### **Hand protection**

Wear suitable gloves.

##### **Skin protection**

Wear suitable protective clothing.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state:

Color:

clear

Test method

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Flash point:	>100 °C DIN 51755
Decomposition temperature:	>=190 °C °C
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Vapor pressure:	< 1 hPa
(at 20 °C)	
Density (at 20 °C):	1,09 g/cm³ DIN 51757

#### Other information

##### **Information with regard to physical hazard classes**

Oxidizing properties  
Not oxidising.

### 10. Stability and reactivity

#### Possibility of hazardous reactions

Oxidizing agent ,Strong acid ,

#### Conditions to avoid

The product hardens when exposed to visible and UV light. Therefore, store in closed containers in complete exclusion of light at 15°C - 28°C.

#### Incompatible materials

No information available.

#### Hazardous decomposition products

No known hazardous decomposition products.

### 11. Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

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

##### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
72869-86-4	7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbis(methacrylate)				
	oral	LD50 mg/kg	> 5000	Ratte	OECD 401
	dermal	LD50 mg/kg	> 2000	Ratte	OECD 402
7534-94-3	Isobornylmethacrylat				
	oral	LD50 mg/kg	> 2000	Rat	MSDS
	dermal	LD50 mg/kg	> 3000	Rabbit	MSDS
127823-21-6	(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate				
	oral	LD50 mg/kg	2000	Ratte	OECD
27813-02-1	Hydroxypropylmethacrylat				
	oral	LD50 mg/kg	> 2000	Rat	OECD 401
	dermal	LD50 mg/kg	> 5000	Rabbit	
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 mg/kg	5564	Rat	
	dermal	LD50 mg/kg	>5000	Rabbit	
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate				
	oral	LD50 mg/kg	> 5000	Rat	OECD 401
	dermal	LD50 mg/kg	> 2000	Rat	

#### Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage (On basis of test data)

Serious eye damage/eye irritation: Causes serious eye damage (On basis of test data)

#### Sensitizing effects

May cause an allergic skin reaction (7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbis(methacrylate); (Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate; Hydroxypropylmethacrylat; 2-hydroxyethyl methacrylate; Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child

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

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

#### Specific target organ toxicity (STOT) - single exposure

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

#### Specific target organ toxicity (STOT) - repeated exposure

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

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#### Aspiration hazard

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

#### Further information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

## 12. Ecological information

### Ecotoxicity

CAS No	Components					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
72869-86-4	7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylate					
	Acute fish toxicity	LC50 mg/l	>100 96 h			OECD 203
	Acute algae toxicity	ErC50 mg/l	>100 72 h			OECD 201
	Acute crustacea toxicity	EC50 mg/l	>100 48 h	Daphnia magna	OECD 202	
7534-94-3	Isobornylmethacrylat					
	Acute fish toxicity	LC50 mg/l	1,79 96 h		MSDS	
	Acute crustacea toxicity	EC50 mg/l	> 2,57 48 h	Daphnia magna	MSDS	
127823-21-6	(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate					
	Acute fish toxicity	LC50 mg/l	1,8 mg/l 96 h	Danio rerio		OECD 203
	Acute algae toxicity	ErC50 mg/l	1,15 72 h	Pseudokirchneriellas ubcapitata		OECD 201
	Acute crustacea toxicity	EC50 mg/l	2,64 48 h	Daphnia magna		OECD 202
27813-02-1	Hydroxypropylmethacrylat					
	Acute fish toxicity	LC50 mg/l	493 mg/l 96 h	Leuciscus idus(Goldorfe)		
	Acute algae toxicity	ErC50 mg/l	> 97,2 72 h	Pseudokirchneriellas ubcapitata	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	380 mg/l 48 h	Daphnia magna	OECD 202	
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 mg/l	227 mg/l 96 h	Pimephales promelas (fathead minnow)	Manufacturer	
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate					
	Acute fish toxicity	LC50 mg/l	1,89 96 h	Danio rerio		

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

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#### Partition coefficient n-octanol/water

CAS No	Components	Log Pow
72869-86-4	7,7,9(oher 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylate	3,39
27813-02-1	Hydroxypropylmethacrylat	0,97
868-77-9	2-hydroxyethyl methacrylate	0,47

#### Mobility in soil

The product has not been tested.

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Appropriate disposal / Package

## 14. Transport information

#### U.S. DOT 49 CFR 172.101

##### UN number or ID number:

UN 3082

##### Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

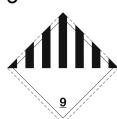
##### Transport hazard class(es):

9

##### Packing group:

III

Hazard label:



#### Marine transport (IMDG)

##### UN number or ID number:

UN 3082

##### UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

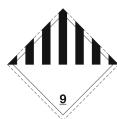
##### Transport hazard class(es):

9

##### Packing group:

III

Hazard label:



Special Provisions:

274 335 969

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F

#### Other applicable information (marine transport)

Contains: 7,7,9(oher 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylat

Flash point: > 100°C

#### Air transport (ICAO-TI/IATA-DGR)

##### UN number or ID number:

UN 3082

##### UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

##### Transport hazard class(es):

9

##### Packing group:

III

according to 29 CFR 1910.1200(g)

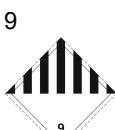
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Hazard label:



Special Provisions:

A97 A158 A197 A215

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y964

Excepted quantity:

E1

IATA-packing instructions - Passenger:

964

IATA-max. quantity - Passenger:

450 L

IATA-packing instructions - Cargo:

964

IATA-max. quantity - Cargo:

450 L

#### Other applicable information (air transport)

Contains: 7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylat

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 311/312 Hazards:

7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylate (72869-86-4):

Immediate (acute) health hazard

Isobornylmethacrylat (7534-94-3): Immediate (acute) health hazard

(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate (127823-21-6): Immediate (acute) health hazard

Hydroxypropylmethacrylat (27813-02-1): Immediate (acute) health hazard

2-hydroxyethyl methacrylate (868-77-9): Immediate (acute) health hazard

Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7): Immediate (acute) health hazard

#### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. Other information

#### Changes

Revision date: 27.08.2025

Revision No: 2

This data sheet contains changes from the previous version in section(s): 1,2,3,4,7,8,9,10,11,12.

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