

VITA VIONIC® BASE RESIN FLEX clear

Revision: 27.08.2025

Product code: 3149

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

1.1. Product identifier

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

Use of the substance/mixture

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

1.3. 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
+49(0)7761-562-299

1.4. Emergency telephone number:

Further Information

medical device

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1B; H317
STOT SE 3; H335
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

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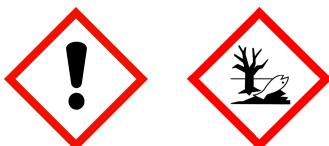
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Hazard components for labelling

7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylate
Isobornylmethacrylat
(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate
Hydroxypropylmethacrylat
2-hydroxyethyl methacrylate
Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate

Signal word: Warning

Pictograms:



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

P501 Dispose of contents/container to an appropriate recycling or disposal facility.
P302+P352 IF ON SKIN: Wash with plenty of water.
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/hearing protection.
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.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of acrylic/methacrylic resins with additives

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
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%
	276-957-5		01-2120751202-68	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
7534-94-3	Isobornylmethacrylat			
	231-403-1			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Chronic 3; H315 H319 H335 H412			
127823-21-6	(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411			
27813-02-1	Hydroxypropylmethacrylat			
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
868-77-9	2-hydroxyethyl methacrylate			
	212-782-2		01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
84434-11-7	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate			
	282-810-6		01-2119987994-10	
	Skin Sens. 1, Aquatic Chronic 2; H317 H411			

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		
72869-86-4	276-957-5	7,7,9(oder 7,9,9)-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecan-1,16-diylbismethacrylate	40- < 60%
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
7534-94-3	231-403-1	Isobornylmethacrylat	5 - < 20%
	dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 2000 mg/kg		
127823-21-6		(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate	5 - < 20%
	oral: LD50 = 2000 mg/kg		
27813-02-1	248-666-3	Hydroxypropylmethacrylat	5 - < 20%
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg		
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0,1 < 5 %
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg		
84434-11-7	282-810-6	Ethylphenyl(2,4,6-trimethylbenzoyl)phosphinate	0,1 < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove the affected person to fresh air and immobilize in a position that facilitates breathing. Seek medical

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attention if symptoms occur.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Rinse contaminated skin with plenty of water. Remove contaminated clothing and shoes. Consult a doctor if symptoms occur. Seek medical advice immediately.

After contact with eyes

Immediately flush eyes with plenty of water and occasionally lift upper and lower eyelids. Check for contact lenses and remove if present. Seek medical attention if irritation occurs.

After ingestion

Rinse the mouth with water. If the substance has been swallowed and the affected person is conscious, give small amounts of water to drink. Do not induce vomiting unless specifically instructed to do so by medical personnel. Seek medical attention if symptoms occur.

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

No additional 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

Match fire extinguishing measures to the surrounding area.

5.2. Special hazards arising from the substance or mixture

The product is not self-igniting. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

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

Additional information

Use water spray to cool containers. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations. Do not allow to enter drains/surface waters/groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Ensure good ventilation/exhaustion at the workplace. Avoid contact with eyes and skin. Wear personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Other information

For safe handling information: see section 7. See Section 8 for information regarding appropriate personal protective equipment. See section 13 for further details on waste treatment.

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.

Advice on general occupational hygiene

Hygienic measures: Wash hands, arms and face thoroughly after handling chemical products and at the end of the day wash hands, forearms, and face thoroughly after handling chemical products and at the end of the workday, as well as before eating, smoking, and visiting the restroom. Select appropriate methods for removing contaminated clothing. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are available near the work area.

7.2. 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 Strong Bases. Highly oxidising substances

Further information on storage conditions

Store in a dry place. Store in a closed container. Sensitivity to light (photosensitive).

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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye protection Wear eye/face protection.

Hand protection

Wear suitable gloves. When handling chemical products, chemical-resistant, impermeable gloves conforming to a recognized standard must always be worn if a risk assessment so requires. > 8 hours (penetration time): Nitrile rubber

Skin protection

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Colour: clear

Flash point:

Test method

>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.

Vapour pressure:

< 1 hPa

(at 20 °C)

Density (at 20 °C):

1,09 g/cm³ DIN 51757

9.2. Other information

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Information with regard to physical hazard classes

Explosive properties

Not classified as explosive.

Oxidizing properties

Not oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

Under normal storage conditions and use, no hazardous reactions will occur.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with : Oxidizing agent ,Strong acid ,Strong Bases.

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 hazard classes

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	Chemical name				
	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 skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising 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

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

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

Reproductive toxicity: 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.

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Aspiration hazard

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

11.2. Information on other hazards

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name	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	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	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	380 mg/l	48 h	Daphnia magna	OECD 202	
868-77-9	2-hydroxyethyl methacrylate	Acute fish toxicity	LC50	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	

12.2. Persistence and degradability

The product has not been tested.

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CAS No	Chemical name	Method	Value	d	Source
	Evaluation				
127823-21-6	(Octahydro-1H-4,7-methanoinden-5-yl)methyl acrylate	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	11,8%	28	
		Nicht leicht biologisch abbaubar (nach OECD-Kriter			
27813-02-1	Hydroxypropylmethacrylat		94 %	28	
		The product is: Not readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72869-86-4	7,7,9(oder 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

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter drains/surface waters/groundwater. Appropriate disposal / Package

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

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

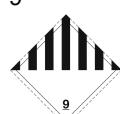
14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

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Other applicable information (land transport)

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

Inland waterways transport (ADN)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

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

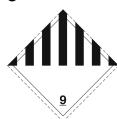
14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Marine transport (IMDG)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

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

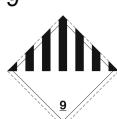
14.3. Transport hazard class(es):

9

14.4. 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(oder 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)

14.1. UN number or ID number:

UN 3082

14.2. UN proper shipping name:

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

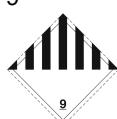
14.3. Transport hazard class(es):

9

14.4. Packing group:

III

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

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14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

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: Causes allergic hypersensitivity reactions.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,7,8,9,10,11,12,15.

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Abbreviations and acronyms

Skin Irrit. 2: Skin irritation, hazard category 2
Eye Irrit. 2: Eye irritation, hazard category 2
Skin Sens. 1: Skin sensitisation, hazard category 1
Skin Sens. 1B: Skin sensitisation, hazard category 1B
STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE: Acute Toxicity Estimates
ADN: European agreement concerning the international carriage of dangerous goods by inland waterways
BCF: Bioconcentration factor
CLP: Classification labelling packaging regulation; Regulation (EC) No 1272/2008
DMEL: Derived minimal effect level
DNEL: Derived-No effect level
DPD: Dangerous preparations directive 1999/45/EC
GHS: Globally harmonized system of classification and labelling of chemicals
IARC: International agency for research on cancer
EC50: mean effective concentration, 50%
IATA: International air transport association
IMDG: International Maritime Code for Dangerous Goods
LC50: lethal concentration, 50%
LD50: lethal dose, 50%
LOAEL: Lowest observed adverse effect level
NOAEL: No-Observed adverse effect level
NOEC: No-Observed effect concentration
OECD: Organisation for economic Co-operation and development
PBT: persistent, bioaccumulative and toxic
PNEC: Predicted No-Effect concentration
REACH: Registration, evaluation, authorisation and restriction of chemicals regulation (EC) No 1907/2006
RID: Regulations concerning the international carriage of dangerous goods by rail
SDS: Safety data sheet
STP: Sewage treatment plant
TLM: Median tolerance limit
vPvB: very persistent and very bioaccumulative

Classification for mixtures and used evaluation method

Classification	Classification procedure
Skin Irrit. 2; H315	
Eye Irrit. 2; H319	
Skin Sens. 1B; H317	
STOT SE 3; H335	Calculation method
Aquatic Chronic 2; H411	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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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