

according to Regulation (EC) No. 1907/2006

Detaseal® hydroflow lite (base + catalyst)

Revision date: 30.09.2022

Product code: 10750

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

1.1. Product identifier

Detaseal® hydroflow lite (base + catalyst)

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

Use of the substance/mixture

Impression material for use in dental technology.

1.3. Details of the supplier of the safety data sheet

Company name:	DETAX GmbH	
Street:	Carl-Zeiss-Straße 4	
Place:	D-76275 Ettlingen	
Telephone:	+49 7243/510-0	Telefax: +49 7243/510-100
e-mail:	post@detax.com	
Internet:	www.detax.com	
Responsible Department:	This number is only obtainable d	uring 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	+1-800-424-9300 (CHEMTREC \	worldwide)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1907/2006

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

H412

Regulation (EC) No. 1907/2006

Hazard statements

Harmful to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P501	Dispose of contents/container to according to local and applicable legislation of dispose of
	waste.

Additional advice on labelling

According to Regulation (EC) 1272/2008, art.1 No. 5 (d) this product as a medical product must not be labelled!

2.3. Other hazards

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH: Octamethylcyclotetrasiloxane.

The mixture contains the following substances fulfilling the vPvB criteria according to UK REACH: Octamethylcyclotetrasiloxane.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Contains polydimethylsiloxane with functional groups. + fillers and pigment catalyst: additionally platinum complex compound.



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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No.	1907/2006)		
14464-46-1	cristobalite flour			20 - < 40 %
	238-455-4			
	STOT RE 1; H372	•		
27306-78-1	poly(oxy-1,2-ethanediyl),.alphame -1-disiloxanyl]propoxy]-	I-1-[(trimethylsilyl)oxy]	0.1 - < 5 %	
	Acute Tox. 4, Eye Irrit. 2, Aquatic C			
556-67-2	Octamethylcyclotetrasiloxane			< 0.1 %
	209-136-7	014-018-00-1	01-2119529238-36	
	Flam. Liq. 3, Repr. 2, Aquatic Chro	nic 1; H226 H361f H410	•	
2390-63-8	3,6-bis(diethylamino)-9-[2-(ethoxycarbonyl)phenyl]xanthylium chloride			< 0.1 %
	219-233-6			
	Acute Tox. 3, Acute Tox. 4, Eye Da H400 H410	m. 1, Aquatic Acute 1, Aquatic Chro	onic 1; H301 H332 H318	

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. I	Limits, M-factors and ATE	
27306-78-1		poly(oxy-1,2-ethanediyl),.alphamethylomega[3-[1,3,3,3-tetramethyl-1- [(trimethylsilyl)oxy]-1-disiloxanyl]propoxy]-	0.1 - < 5 %
	inhalation: ATE	= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)	
556-67-2	209-136-7	Octamethylcyclotetrasiloxane	< 0.1 %
	inhalation: LC50 = 36 mg/l (vapours); dermal: LD50 = >2400 mg/kg; oral: LD50 = 4800 mg/kg M chron.; H410: M=10		
2390-63-8	219-233-6	3,6-bis(diethylamino)-9-[2-(ethoxycarbonyl)phenyl]xanthylium chloride	< 0.1 %
		= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 100 e; H400: M=100 : M=10	

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Remove product mechanically with cloth or paper. Wash with plenty of water and soap. In case of visible changes on the skin or complaints, seek medical advice (if possible have label or safety data sheet with you).

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink 1 glass of of water. Let water be drunken in little sips (dilution effect). Do not induce vomiting. If you feel unwell, seek medical advice.

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



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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

In case of fire: Wear self-contained breathing apparatus.

Additional information

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

General advice

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

For cleaning up

Take up mechanically. 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

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

Do not store with acids, lyes, alcohols, metallic powders and metallic oxides (release of hydrogen is favoured).

Further information on storage conditions

Keep only in the original container in a cool, dry and well-ventilated place, away from foodstuffs.

7.3. Specific end use(s)

Impression material for use in dentistry. For use by trained specialist staff.

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

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: NBR (Nitrile rubber)

Skin protection

Use of 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:	Paste		
Colour:	base: pink , catalyst: white		
Odour:	like peppermint		
			Test method
Melting point/freezing point:		not determined	
Boiling point or initial boiling point and		>200 °C	
boiling range:			
Flammability			
Solid/liquid:		not determined	
Gas:		not applicable	
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Flash point:			DIN 51755
Auto-ignition temperature:			DIN 51794
Decomposition temperature:		>180 °C	
pH-Value:		not determined	
Water solubility:		practically insoluble	
Solubility in other solvents			
not determined			
Partition coefficient n-octanol/water:		not determined	
Vapour pressure:		<10 hPa	
(at 20 °C)			
Density (at 20 °C):			DIN 51757
Relative vapour density:		not determined	
2. Other information			
Information with regard to physical h	azard classes		
Explosive properties			
The product is not: Explosive.			
A I I I			

Oxidizing properties The product is not: oxidising.

Other safety characteristics



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Evaporation rate:not determinedSolid content:not determinedViscosity / dynamic:17000 mPa·s(at 23 °C)BROOKFIELD

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 : Acids, alkalis, alcohols, powdered metals or metal oxides with release of hydrogen.

10.4. Conditions to avoid

Temperatures > 150°C/ 302 °F.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of thermic decomposition hydrogen is released.

At a temperature of approx. 150°C/ 302°F a small amount of formaldehyde can be released by oxidative degradation.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No. 1907/2006

Acute toxicity

Based on available data, the classification criteria are not met. For the product itself no toxicological data are available. In products with a comparable composition, a LD50 (orally, species rat) of > 5000 mg/kg has been found.

ATEmix calculated

ATE (inhalation vapour) 733,95 mg/l; ATE (inhalation dust/mist) 102,978 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
27306-78-1	poly(oxy-1,2-ethanediyl),.alphamethylomega[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy] -1-disiloxanyl]propoxy]-					
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
556-67-2	2 Octamethylcyclotetrasiloxane					
	oral	LD50 mg/kg	4800	Rat		OECD 401
	dermal	LD50 mg/kg	>2400	Rabbit		OECD 402
	inhalation (4 h) vapour	LC50	36 mg/l	Rat	GESTIS	OECD 403
2390-63-8	3,6-bis(diethylamino)-9-[2-(ethoxycarbonyl)phenyl]xanthylium chloride					
	oral	ATE mg/kg	100			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			



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Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Due to physical form (paste) classification with H372 is not appropriate. An inhalation of the product is not possible.

EC regulation 1272/2008 annex 1, section 1.1.1.5: "For the purpose of classification of health hazards (part 3), the route of exposure, information on mechanisms and metabolism studies are useful for determining the relevance of effects in humans. If this information raises doubts as to their relevance in humans, in spite of the indisputable data legitimacy and quality, a lower classification may be justified. When there is scientific evidence that the mechanism or mode of action is not relevant to humans, the substance or mixture should not be classified."

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
556-67-2	Octamethylcyclotetrasiloxane			
		3,7%	29	
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The mixture contains the following substances fulfilling the PBT criteria according to UK REACH: Octamethylcyclotetrasiloxane. The mixture contains the following substances fulfilling the vPvB criteria according to UK REACH: Octamethylcyclotetrasiloxane. Not identivied as PBT/ vPvB substances

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.

12.7. 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.

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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.

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 or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 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. Inland waterways transport (ADN) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Marine transport (IMDG) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Air transport (ICAO-TI/IATA-DGR) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No dangerous good in sense of this transport regulation. 14.7. Maritime transport in bulk according to IMO instruments

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

EU regulatory information

Authorisations (REACH, annex XIV): Substances of very high concern, SVHC (REACH, article 59): Octamethylcyclotetrasiloxane

 Restrictions on use (REACH, annex XVII):

 Entry 70, Entry 75

 2010/75/EU (VOC):
 0,002 % (0,032 g/l)

 2004/42/EC (VOC):
 0,002 % (0,032 g/l)



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Detaseal® hydroflow lite (base + catalyst) Revision date: 30.09 2002 Product dote: 10750 Page 8 of 9 Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) Second Togulatory Information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (44/33/EC). Water hazard class (D): 3 - highly hazardous to water Second					
Information according to 2012/14/EU Information Employment restrictions Conserve restrictions to employment for juveniles according to the juvenile work protection guideline (194/33/EC). Water hazard class (D): 3 - highly hazardous to water SECTION 16: Other information Conserve restrictions to employment for juveniles according to the juvenile work protection guideline (194/33/EC). Conserve restrictions and according to substances in this mixture were not carried out. SECTION 16: Other information ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMMOS: European Inventory of Existing Commercial Chemicals EINECS: European Inventory of Classification and Labelling of Chemicals EINECS: European Inventory of Classification and Labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals EINECS: European Inventory of Classification and Labelling and Packaging of Chemicals EINECS: European Inventory of Classification and Labelling and Packaging of Chemicals EINECS: European Inventory of Classification, Labelling and Packaging of Chemicals EINECS: European Inventory of Classification, Labelling and Packaging of Chemicals EINECS: European List of Effect Level DMEL: Derived Nominal Effect Level DMEL: Derived Nominal Effect Concentration ATE: Acute toxicity estimate LLGS: Lethal coancertration 50% ECSG: Effective Concentration 50% ECSG: E		Detaseal® hydroflow lite (base + catalyst)			
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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) (MDG: International Martime Code for Dangerous Goods VATA: International Martime Code for Dangerous Goods VATA: International Antime Code for Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service LOS0: Lethal doncentration, 50% LOS0: Lethal concentration, 50% CHP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals DNEL: Derived No Effect Level PMEC: Predicted No Effect Level PMEC: Predicted No Effect Concentration ADF: Sciente Concentration 50% ECS0: Effective Concentration DNC:: Effective Concentration DNC:: Envoreend Effect Concentration DNC:: European Agreement concerning the International Carriage of dangerous goods by riall ADN: European Agreement concerning the International Carriage of Dangerous Codes by Inland Waterways	15.2. Chemical safety assessment				
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) (MDG: International Martime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LCS0: Lethal concentration, 50% LD60: Lethal concentration, 50% CHP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System C DMEL: Derived Moisfield System C DMEL: Derived Moisfield System C DMEL: Derived Moisfield Concentration ATF: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration DF: Bio-concentration factor PBT: persistent, bloaccumulative, toxic VPM: very persistent, very bloaccumulative <t< td=""><td>Chemical safety assessments</td><td>for substances in this mixture were not carried out.</td><td></td></t<>	Chemical safety assessments	for substances in this mixture were not carried out.			
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RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Classification for mixtures and used evaluation method according to Regulation (EC) No. 1907/2006					
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Aquatic Chronic 3; H412 Calculation method	Classification	Classification procedure			
	Aquatic Chronic 3; H412	Calculation method			



according to Regulation (EC) No. 1907/2006

Detaseal® hydroflow lite (base + catalyst)

Revision date: 30.09.2022

Product code: 10750

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Relevant H and EUH statements (number and full text)				
H226	Flammable liquid and vapour.			
H301	Toxic if swallowed.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H361f	Suspected of damaging fertility.			
H372	Causes damage to organs (lung) through prolonged or repeated exposure if inhaled.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting effects.			

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.)