

Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

Date revised: 30.10.2024

Replaces Version: 1 / GB

Print date: 30.10.2024

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

1.1. Product identifier

Biopor UV-S Comp. B

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

Use of the substance/preparation

Silicone lacquer for coating earmolds and ear impressions

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

DE-59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research & Development: Fax: +49 2303 8807-562

E-mail address of person responsible sicherheitsdatenblatt@dreve.com

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

STOT RE 2 H373

Aquatic Acute 1 H400

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***



Signal word

Danger



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Hazard statements ***

H225	Highly flammable liquid and vapour.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements ***

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P314	Get medical advice/attention if you feel unwell.
P501.1	Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Chemical characterization**

Addition-vulcanising 2-component silicone

Hazardous ingredients *****Hexamethyldisiloxane**

CAS No.	107-46-0
EINECS no.	203-492-7
Registration no.	01-2119496108-31
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 2 H225 Aquatic Acute 1 H400 Aquatic Chronic 2 H411

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

CAS No.	68909-20-6
EINECS no.	272-697-1
Registration no.	01-2119379499-16
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	STOT RE 2 H373

Name of set of nanoform	Nanoaggregate
Particle size distribution	d50 60-300 nm
	Method Transmission Electron Microscopy (TEM)

Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

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Shape and aspect ratio of particles
40 to 350 amorphous
m²/g

Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).
Hexamethyldisiloxane

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely. In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂-blanket, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing



Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

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Replaces Version: 1 / GB

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apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away sources of ignition. Ensure adequate ventilation. Use personal protective clothing. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Provide suitable exhaust ventilation at processing machines. Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition! Use explosion-proof apparatus and fittings. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store product in closed containers. Protect from heat and direct sunlight

Hints on storage assembly

Do not store with strong oxidizing agents.

Further information on storage conditions

Protect from heat and direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.



Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

Date revised: 30.10.2024

Replaces Version: 1 / GB

Print date: 30.10.2024

Derived No/Minimal Effect Levels (DNEL/DMEL)**Hexamethyldisiloxane**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	dermal	
Concentration	333	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	inhalative	
Concentration	53,4	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	oral	
Concentration	0,27	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	dermal	
Concentration	167	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	inhalative	
Concentration	13,3	mg/m ³

Predicted No Effect Concentration (PNEC)**Hexamethyldisiloxane**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,003	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	8,9	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,089	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,14	mg/kg
Type of value	PNEC	
Type	Secondary poisoning	
Concentration	5,3	mg/kg

8.2. Exposure controls**General protective and hygiene measures**

Do not smoke during work time. Do not inhale gases/vapours/aerosols. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Take off immediately all contaminated clothing. Wash hands before breaks and after work.



Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

Date revised: 30.10.2024

Replaces Version: 1 / GB

Print date: 30.10.2024

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation; The respiratory protection must comply with the relevant CEN standards.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Appropriate Material Butyl rubber

Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid	
Colour	colourless	
Odour	characteristic	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	101	°C
Flammability		
evaluation	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	-8	°C
Method	closed cup	
Auto-ignition temperature		
Remarks	not determined	
Decomposition temperature		
Remarks	not determined	
pH value		
Remarks	not determined	
Viscosity		
Remarks	not determined	
Solubility(ies)		
Remarks	not determined	
Partition coefficient n-octanol/water (log value)		



Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

Date revised: 30.10.2024

Replaces Version: 1 / GB

Print date: 30.10.2024

Remarks not determined

Vapour pressureValue 5 hPa
Temperature 20 °C**Density and/or relative density**Value 0,92 g/cm³
Temperature 20 °C**Relative vapour density**

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Protect from heat and direct sunlight

10.5. Incompatible materials

None known

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

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



Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

Date revised: 30.10.2024

Replaces Version: 1 / GB

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Acute oral toxicity (Components)**Hexamethyldisiloxane**

Species	rat	
LD50	> 12160	mg/kg
Method	OECD 401	

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	
Remarks	Test conducted with a similar formulation.	

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Hexamethyldisiloxane**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

Species	rabbit	
LD50	> 5000	mg/kg
Source	Analogous	

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Hexamethyldisiloxane**

Species	rat	
LC50	appr. 106	mg/l
Duration of exposure	4	h
Method	OECD 403	

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

Species	rat	
LC50	> 5,01	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Source	Analogous	

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Sensitization

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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



Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

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Replaces Version: 1 / GB

Print date: 30.10.2024

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposureRemarks The classification criteria are met.
evaluation May cause damage to organs through prolonged or repeated exposure**Aspiration hazard**

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

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Fish toxicity (Components)**Hexamethyldisiloxane**Species rainbow trout (*Oncorhynchus mykiss*)
LC50 0,46 mg/l
Duration of exposure 96 h**Hexamethyldisiloxane**Species Fathead minnow (*Pimephales promelas*)
NOEC 0,029 mg/l
Duration of exposure 32 d
Method OECD 210**Silamine, 1,1,1-trimethyl-N-(trimethylsilyl)**Species zebra fish (*Brachydanio rerio*)
LC50 > 10000 mg/l
Duration of exposure 96 h
Source Analogous**Daphnia toxicity (Components)****Hexamethyldisiloxane**Species *Daphnia magna*
NOEC 0,3 mg/l
Duration of exposure 21 d
Method OECD 211**Silamine, 1,1,1-trimethyl-N-(trimethylsilyl)**Species *Daphnia magna*
EC50 > 1000 mg/l
Duration of exposure 48 h
Source Analogous**Algae toxicity (Components)**



Trade name: Biopor UV-S Comp. B

Substance number: 45162

Version: 2 / GB

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Replaces Version: 1 / GB

Print date: 30.10.2024

Hexamethyldisiloxane

Species	Pseudokirchneriella subcapitata		
ErC50	>	0,55	mg/l
Duration of exposure		95	h
Method	OECD 201		

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

Species	Desmodesmus subspicatus		
EC50	>	173	mg/l
Duration of exposure		72	h
Source	Analogous		

Bacteria toxicity (Components)**Hexamethyldisiloxane**

Species	activated sludge		
NOEC	>=	100	mg/l
Duration of exposure		3	h
Method	OECD 209		

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

Species	activated sludge		
EC50	>	2500	mg/l
Duration of exposure		3	h
Method	OECD 209		
Source	Analogous		

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Hexamethyldisiloxane**

Value	2	%
Duration of test evaluation	28	d
	not readily degradable	

Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)

Remarks Inorganic product, cannot be eliminated from the water by biological purification processes.

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Hexamethyldisiloxane**

log Pow	5,06	
Temperature	20	°C

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined



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Replaces Version: 1 / GB

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Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.
Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information ***

Trade name: Biopor UV-S Comp. B






Substance number: 45162

Version: 2 / GB

Date revised: 30.10.2024

Replaces Version: 1 / GB

Print date: 30.10.2024

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	1993	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Remarks	The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	
Limited Quantity	1 l	1 l	
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	-
Tunnel restriction code	D/E		

SECTION 15: Regulatory information

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

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.



Trade name: Biopor UV-S Comp. B

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Version: 2 / GB

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Replaces Version: 1 / GB

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SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225	On basis of test data
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.