

Printing date 05/06/2019

Reviewed on 05/06/2019

1 Identification

- · Product identifier
- · Trade name: Silfix
- · Application of the substance / the mixture

Precise embedding material for the complete denture

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dreve Dentamid GmbH Max-Planck-Straße 31 59423 Unna / Germany

Tel.: + 49 2303 / 8807-0 Fax.: +49 2303 / 8807-55

· Information department:

Department Research & Development

Fax.: +49 2303 8807-562

Email: sicherheitsdatenblatt@dreve.de • Emergency telephone number:

+49 211 797-3350

Plant Fire Department Henkel

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 1 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Addition-vulcanizing 2-component silicone
- · Dangerous components:

14464-46-1 cristobalite 25-50%

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| (Contd. of page 1) | 8042-47-5 | White mineral oil, petroleum | 2.5-10% |

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Do not induce vomiting.

Call a doctor immediately.

- · Information for doctor:
- \cdot Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

No further relevant information available.

- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Avoid contact with eves
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
14464-46-1	cristobalite	0.075 mg/m ³
	Vinylpolydimethylsiloxane	48 mg/m ³
	Polydimethylsiloxan	65 mg/m ³
	Methylhydrogenpolysiloxan	30 mg/m ³
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· PAC-2:		
14464-46-1	cristobalite	33 mg/m³
	Vinylpolydimethylsiloxane	530 mg/m³
	Polydimethylsiloxan	720 mg/m³
	Methylhydrogenpolysiloxan	330 mg/m³
· PAC-3:		
14464-46-1	cristobalite	200 mg/m ³
	Vinylpolydimethylsiloxane	3,200 mg/m ³
	Polydimethylsiloxan	4,300 mg/m ³
	Methylhydrogenpolysiloxan	2,000 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Avoid contact with eyes

When using do not eat, drink or smoke.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Keep receptacle tightly sealed.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

 Components with limit values that rec 	quire monitoring at the workplace:
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14464-46-1 cristobalite

PEL Long-term value: 0.05* mg/m³

*resp. dust;1/2 value from resp.dust formulae Quartz

REL Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³

*as respirable fraction

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not required.
- · Protection of hands: Not required.
- · Material of gloves Not applicable
- · Penetration time of glove material Not applicable

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Not determined.

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• Eye protection: Goggles recommended during refilling.

· Body protection: Protective work clothing

9 Physical and chemical properties

· Infori	mation	on basic	: physical	l and (chemical	properties
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· General Information

· Appearance:

· pH-value:

Form: Fluid
Color: Reddish
Odor: Characteristic
Odor threshold: Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:Undetermined.
>300 °C (>572 °F)⋅ Flash point:131 °C (267.8 °F)

· Flammability (solid, gaseous): Not applicable.

• Ignition temperature: >400 °C (>752 °F)

• Decomposition temperature: > 200 °C (>392 °F)

• Auto igniting: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

 $\cdot \ \textbf{Explosion limits:}$

Lower:
Upper:
Oxidizing properties

Not determined.
Not determined.
Not determined

Not determined

Not determined

Vapor pressure at 20 °C (68 °F): <100 hPa (<75 mm Hg)
 Density at 20 °C (68 °F): 1.5 g/cm³ (12.5175 lbs/gal)

Relative density
Vapor density
Evaporation rate
Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No dangerous reactions if used according to specifications
- Chemical stability Stable if used according to specifications
- Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.

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- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
14464-46-1	cristobalite	1
· NTP (Natio	nal Toxicology Program)	
14464-46-1	cristobalite	K
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Disposal must be made according to official regulations.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

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4 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping nameDOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	Void	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

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· MAK (German Maximum Workplace Concentration)

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· NIOSH-Ca (National Institute for Occupational Safety and Health)

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- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Department Research & Development
- · Contact: Dr. Thomas Veit, Lothar Sutor
- · Date of preparation / last revision 05/06/2019 / 2
- · 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)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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