



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 02/12/2018

Reviewed on 02/12/2018

### 1 Identification

- **Product identifier**
- **Trade name: Dynax mono**
- **Application of the substance / the mixture**  
Dental impression material on the basis of vinylpolysiloxane
- **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:** Hydrophilic, addition-vulcanising 2-component silicone

#### Dangerous components:

|            |              |        |
|------------|--------------|--------|
| 14464-46-1 | cristobalite | 10-25% |
|------------|--------------|--------|

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Trade name: **Dynax mono**

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93685-79-1 Isoparaffin-mixture C12, C16 and C20

≤2.5%

· **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:**
- **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:**  
CO<sub>2</sub>, 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 eyes
- **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 <sup>3</sup> |
|            | Dihydrogenpolysiloxan     | 30 mg/m <sup>3</sup>    |
|            | Methylhydrogenpolysiloxan | 30 mg/m <sup>3</sup>    |
|            | Vinylpolydimethylsiloxane | 48 mg/m <sup>3</sup>    |

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|                 |                           |                         |
|-----------------|---------------------------|-------------------------|
| 13463-67-7      | titanium dioxide          | 30 mg/m <sup>3</sup>    |
| <b>· PAC-2:</b> |                           |                         |
| 14464-46-1      | cristobalite              | 33 mg/m <sup>3</sup>    |
|                 | Dihydrogenpolysiloxan     | 330 mg/m <sup>3</sup>   |
|                 | Methylhydrogenpolysiloxan | 330 mg/m <sup>3</sup>   |
|                 | Vinylpolydimethylsiloxane | 530 mg/m <sup>3</sup>   |
| 13463-67-7      | titanium dioxide          | 330 mg/m <sup>3</sup>   |
| <b>· PAC-3:</b> |                           |                         |
| 14464-46-1      | cristobalite              | 200 mg/m <sup>3</sup>   |
|                 | Dihydrogenpolysiloxan     | 2,000 mg/m <sup>3</sup> |
|                 | Methylhydrogenpolysiloxan | 2,000 mg/m <sup>3</sup> |
|                 | Vinylpolydimethylsiloxane | 3,200 mg/m <sup>3</sup> |
| 13463-67-7      | titanium dioxide          | 2,000 mg/m <sup>3</sup> |

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** 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 require monitoring at the workplace:

#### 14464-46-1 cristobalite

|     |   |
|-----|---|
| PEL | ½ value from respirable dust formulae for Quartz                                      |
| REL | Long-term value: 0.05* mg/m <sup>3</sup><br>*respirable dust; See Pocket Guide App. A |
| TLV | Long-term value: 0.025* mg/m <sup>3</sup><br>*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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Trade name: **Dynax mono**

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- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

#### · Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

Form: Viscous

Color: Violet

· Odor: Characteristic

· Odor threshold: Not determined.

· pH-value: Not determined.

##### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 301 °C (573.8 °F)

· Flash point: 161 °C (321.8 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 435 °C (815 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

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

##### · Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Oxidizing properties: Not determined

· Vapor pressure at 20 °C (68 °F): 6 hPa (4.5 mm Hg)

· Density at 20 °C (68 °F): 1,3 g/cm<sup>3</sup> (10.8485 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: 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.

##### · Solvent content:

Organic solvents: 0,0 %

· Other information: No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No dangerous reactions if used according to specifications

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- **Chemical stability** Stable if used according to specifications
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **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 (International Agency for Research on Cancer)**

|            |                           |   |
|------------|---------------------------|---|
| 14464-46-1 | cristobalite              | 1 |
| 1318-02-1  | sodium aluminium silicate | 3 |
| 68937-54-2 | sodium aluminium silicate | 3 |
|            | sodium aluminium silicate | 3 |

- **NTP (National 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.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   |                 |
| · <b>DOT, ADR, IMDG, IATA</b>  | Void            |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | 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.
- **TSCA new (21st Century Act) (Substances not listed)**
- **Proposition 65**
- **Chemicals known to cause cancer:**
- 14464-46-1 | cristobalite
- **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.

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- **Cancerogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

14464-46-1 cristobalite

A2

- **MAK (German Maximum Workplace Concentration)**

14464-46-1 cristobalite

1

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

14464-46-1 cristobalite

- **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** 02/12/2018 / 1

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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)

HMS: 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

- **\* Data compared to the previous version altered.**

US