

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.05.2023





Version number 5

Revision: 17.05.2023

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

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product identifier**
- **Trade name:**  
**Omnident® Pastenhärter Labor**  
Mixture contains components in nanoform
- **Application of the substance / the mixture** technical activator for C-silicones
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Omnident Dental-Handelsgesellschaft mbH  
Gutenbergring 5  
D - 63110 Rodgau  
Phone: +49 (0) 6106 / 874 - 0  
Fax: +49 (0) 6106 / 874 - 265  
www.omnident.de  
info@omnident.de
- **Further information obtainable from:** info@omnident.de
- **1.4 Emergency telephone number:** +49 (0) 6106 - 874 - 0 (Mo - Fr 8:00 a.m. - 5:00 p.m.)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  GHS08 health hazard
- STOT SE 2 H371 May cause damage to the immune system. Route of exposure: Oral.
- STOT RE 2 H373 May cause damage to the blood through prolonged or repeated exposure.  
Route of exposure: Oral.
-  GHS07
- Skin Irrit. 2 H315 Causes skin irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
-  
- GHS07 GHS08
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Diocetylzinnbisacetylacetonat (CAS 54068-28-9)  
Tetrakis(2-butoxyethoxy)silane (CAS 18765-38-3)

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**- Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H371 May cause damage to the immune system. Route of exposure: Oral.

H373 May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral.

**- Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**- 2.3 Other hazards**
**- Results of PBT and vPvB assessment**

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

- **PBT:** Not applicable.- **vPvB:** Not applicable.
**- Determination of endocrine-disrupting properties**

Endocrine disrupting properties - human health: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Endocrine disrupting properties - Environment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

### SECTION 3: Composition/information on ingredients

**- 3.2 Mixtures**
**- Description:** Mixture of substances listed below with nonhazardous additions.

**- Dangerous components:**

	Tetrakis(2-butoxyethoxy)silane (CAS 18765-38-3) ☠ STOT RE 2, H373; ⚠ Skin Irrit. 2, H315	10-25%
	Diocetylzinnbisacetylacetonat (CAS 54068-28-9) ☠ STOT SE 2, H371; ⚠ Skin Sens. 1, H317	10-25%
	Kieselsäure / silica Nanoform: Spheroidal, set including amorphous nanoforms, amorphous forms, non-surface-treated nanoforms	2.5-10%
	Diocetylzinndineodecanoat (CAS: 68299-15-0) ☠ STOT SE 2, H371	≥2.5-<10%
CAS: 78-10-4 EINECS: 201-083-8 Index number: 014-005-00-0	tetraethyl silicate ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	1-2.5%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0	2-butoxyethanol ☠ Acute Tox. 3, H311; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg	0.1-1%

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

### SECTION 4: First aid measures

#### - 4.1 Description of first aid measures

##### - **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

##### - **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

##### - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

##### - **After eye contact:** Rinse opened eye for several minutes under running water.

##### - **After swallowing:** If symptoms persist consult doctor.

#### - 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### - 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### - 5.1 Extinguishing media

##### - **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### - 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

#### - 5.3 Advice for firefighters

##### - **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

#### - 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

#### - 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

#### - 6.3 Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### - 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### - 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### - **Information about fire - and explosion protection:** Keep respiratory protective device available.

#### - 7.2 Conditions for safe storage, including any incompatibilities

##### - **Storage:**

##### - **Requirements to be met by storerooms and receptacles:** No special requirements.

##### - **Information about storage in one common storage facility:** Not required.

##### - **Further information about storage conditions:** Keep container tightly sealed.

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- 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### - 8.1 Control parameters

##### - Ingredients with limit values that require monitoring at the workplace:

###### 78-10-4 tetraethyl silicate

IOELV Long-term value: 44 mg/m<sup>3</sup>, 5 ppm

###### 111-76-2 2-butoxyethanol

 IOELV Short-term value: 246 mg/m<sup>3</sup>, 50 ppm  
 Long-term value: 98 mg/m<sup>3</sup>, 20 ppm  
 Skin
- **Additional information:** The lists valid during the making were used as basis.

#### - 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see item 7.- **Individual protection measures, such as personal protective equipment**- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

In case of intensive or longer exposure use self-contained respiratory protective device.

- **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection**

Tightly sealed goggles

### SECTION 9: Physical and chemical properties

#### - 9.1 Information on basic physical and chemical properties

- **General Information**- **Physical state**

Fluid

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- Colour:	Red
- Odour:	Characteristic
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	Undetermined.
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	>70 °C
- Ignition temperature:	Not determined.
- Decomposition temperature:	Not determined.
- pH	Not determined.
- Viscosity:	
- Kinematic viscosity	Not determined.
- Dynamic:	Not determined.
- Solubility	
- water:	Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure:	Not determined.
- Density and/or relative density	
- Density:	Not determined.
- Relative density	Not determined.
- Vapour density	Not determined.
- Particle characteristics	Kieselsäure / silica: Spheroidal, set including amorphous nanoforms, amorphous forms, non-surface-treated nanoforms

**- 9.2 Other information**

- Appearance:	
- Form:	Pasty
- Important information on protection of health and environment, and on safety.	
- Auto-ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product does not present an explosion hazard.
- Solvent content:	
- Organic solvents:	<0.7 %
- VOC (EC)	<0.66 %
- Solids content:	90.0 %
- Change in condition	
- Evaporation rate	Not determined.

**- Information with regard to physical hazard classes**

- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void

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- <b>Oxidising liquids</b>	Void
- <b>Oxidising solids</b>	Void
- <b>Organic peroxides</b>	Void
- <b>Corrosive to metals</b>	Void
- <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### - LD/LC50 values relevant for classification:

##### Vaseline

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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 damage to the immune system. Route of exposure: Oral.
- **STOT-repeated exposure**  
May cause damage to the blood through prolonged or repeated exposure. Route of exposure: Oral.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

#### - 11.2 Information on other hazards

##### - Endocrine disrupting properties

Endocrine disrupting properties - human health: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**  
This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
Endocrine disrupting properties - Environment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| - <b>14.1 UN number or ID number</b><br>- <b>ADR, IMDG, IATA</b>                            | Void            |
| - <b>14.2 UN proper shipping name</b><br>- <b>ADR, IMDG, IATA</b>                           | Void            |
| - <b>14.3 Transport hazard class(es)</b><br>- <b>ADR, ADN, IMDG, IATA</b><br>- <b>Class</b> | Void            |
| - <b>14.4 Packing group</b><br>- <b>ADR, IMDG, IATA</b>                                     | Void            |
| - <b>14.5 Environmental hazards:</b>  | Not applicable. |
| - <b>14.6 Special precautions for user</b>  | Not applicable. |
| - <b>14.7 Maritime transport in bulk according to IMO instruments</b>                       | Not applicable. |
| - <b>UN "Model Regulation":</b>   | Void            |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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EU

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**- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**- REGULATION (EU) 2019/1148**

**- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**- Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**- Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

### SECTION 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.

#### - Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H371 May cause damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

- **Contact:** info@omnident.de

- **Date of previous version:** 03.11.2021

#### - Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

#### - Sources

The data for the hazardous ingredients were taken respectively from the last version of Safety Data Sheets of suppliers.

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