

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

Printing date 10.11.2015

Revision: 03.11.2015

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

- **1.1 Product identifier**
  - **Trade name:** **Omnicent Silikon Knetmassen Härter Speed Zahntechnik**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
  - **Application of the substance / the mixture** Activator for dental impression material
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** OMNIDENT Dental-Handelsgesellschaft  
Gutenbergring 7-9, DE-63110 Rodgau/Nieder-Roden, Telephone: +49 (6106) 874-267
  - **Informing department:** Productmarketing Omnicent Telephone: +49 (6106) 874-267
- **1.4 Emergency telephone number:**  
Productmarketing Omnicent Telephone +49 (6106)874-267 Mo-Fr 08:00am to 5:00pm

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Acute Tox. 4	H332	Harmful if inhaled.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335	May cause respiratory irritation.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

- **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**



GHS02 GHS07 GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*tetraethyl orthosilicate*  
*tetramethyl orthosilicate*
- **Hazard statements**  
*H225 Highly flammable liquid and vapour.*  
*H332 Harmful if inhaled.*  
*H319 Causes serious eye irritation.*  
*H335 May cause respiratory irritation.*  
*H411 Toxic to aquatic life with long lasting effects.*
- **Precautionary statements**  
*P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*  
*P241 Use explosion-proof electrical/ventilating/lighting/equipment.*

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P303+P361+P353 *IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

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**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **3.2 Chemical characterisation: Mixtures**

· **Description:** -

· **Dangerous components:**

CAS: 78-10-4 EINECS: 201-083-8 Reg.nr.: 01-2119496195-28-0003	tetraethyl orthosilicate Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 77-58-7 EINECS: 201-039-8	dibutyltin dilaurate STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319	5-10%
CAS: 681-84-5 EINECS: 211-656-4	tetramethyl orthosilicate Flam. Liq. 2, H225; Acute Tox. 1, H330; Eye Dam. 1, H318; Acute Tox. 4, H302	< 1%

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

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **After inhalation**

Supply fresh air.  
Seek immediate medical advice.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.  
Seek immediate medical advice.

· **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.

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### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
  - **For safety reasons unsuitable extinguishing agents** Water.
- **5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
  - **Protective equipment:** Put on breathing apparatus.
  - **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

### **SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.  
Do not allow to enter the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**

Collect mechanically.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**

Keep containers tightly sealed.  
Ensure good ventilation/exhaustion at the workplace.

  - **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and containers:** No special requirements.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**

Protect from humidity and keep away from water.  
Store container in a well ventilated position.
- **7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

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

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· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

· **DNELs**

**78-10-4 tetraethyl orthosilicate**

Dermal	ge.pop., acu., syst.	8.4 mg/Kg/d (human)
	ge.pop., l.te, syst.	8.4 mg/Kg/d (human)
	worker, acute, syst.	12.1 mg/Kg/d (human)
	worker, l.te., syst.	12.1 mg/Kg/d (human)
Inhalative	ge.pop., l.te, syst.	25 mg/m3 (human)
	worker, acute, syst.	85 mg/m3 (human)
	worker, l.te., syst.	85 mg/m3 (human)

· **PNECs**

**78-10-4 tetraethyl orthosilicate**

freshwater	0.192 mg/l (aqua)
interm. wat. release	10 mg/l (aqua)
marine water	0.0192 mg/l (aqua)
sedim., dw, fre.wat.	0.18 mg/Kg (sediment)
soil,dw	0.05 mg/Kg (soil)

· **Additional information:** *The lists that were valid during the compilation were used as basis.*

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

*Avoid contact with the eyes.*

*Keep away from foodstuffs, beverages and food.*

*Wash hands during breaks and at the end of the work.*

· **Breathing equipment:**

*Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).*

· **Protection of hands:**

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

*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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

*Butyl rubber, BR*

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- Fluorocarbon rubber (Viton)
- **Eye protection:** Safety glasses
  - **Body protection:** Light weight protective clothing

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**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Pasty
- **Colour:** Red
- **Smell:** Characteristic

· **Change in condition**

- **Melting point/Melting range:** Not applicable
- **Boiling point/Boiling range:** 110 °C

· **Flash point:** 21 °C

· **Ignition temperature:** 234 °C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· **Critical values for explosion:**

- **Lower:** 1,3 Vol %
- **Upper:** 23,0 Vol %

· **Steam pressure at 20 °C:** 1,7 hPa

· **Density** Not determined

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix

· **9.2 Other information** No further relevant information available.

**SECTION 10: Stability and reactivity**

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Conditions to be avoided:** No decomposition if used and stored 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:** Water.

· **10.6 Hazardous decomposition products:** None

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**SECTION 11: Toxicological information**

· **11.1 Information on toxicological effects**

- **Acute toxicity**  
Harmful if inhaled.

· **LD/LC50 values that are relevant for classification:**

**78-10-4 tetraethyl orthosilicate**

Oral	LD50	6270 mg/kg (rat)
Dermal	LD50	5878 mg/kg (can)

**112945-52-5 Kieselsäuren, amorphe**

Oral	LD50	10000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)

**681-84-5 tetramethyl orthosilicate**

Oral	LD50	700 mg/kg (rat)
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- **Primary irritant effect:**
  - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - **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 respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**78-10-4 tetraethyl orthosilicate**

EC50/48h	>844 mg/l (daphnia)
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**112945-52-5 Kieselsäuren, amorphe**

LC50/96h	>10000 mg/l (fish)
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- **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.
  - **Additional ecological information:**
    - **General notes:**  
Avoid transfer into the environment.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

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· **12.6 Other adverse effects** No further relevant information available.

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**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
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· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1993

· **14.2 UN proper shipping name**

· **ADR**

1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (TETRAETHYL SILICATE, dibutyltin dilaurate)

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, dibutyltin dilaurate), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, dibutyltin dilaurate)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

3 (F1) Flammable liquids.

· **Label**

3

· **IMDG**



· **Class**

3 Flammable liquids.

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· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	
· Warning:	Flammable liquids.
· Kemler Number:	33
· EMS Number:	F-E,S-E
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640H (TETRAETHYL SILICATE, DIBUTYL TIN DILAURATE), 3, III

**SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
No further relevant information available.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.

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H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 1: Acute toxicity, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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

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