

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

077062417

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

077062409 077062425 077062433 077062441 077062458 077062466 077062474 077062482 077062490 077062508

077076789 273045119 273045685

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 30.07.2012

Version number 1

Revision: 30.07.2012

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

- **Product identifier**
- **Trade name:** VITA ENAMIC
- **Article number:** EC4...
- **Relevant identified uses of the substance or mixture and uses advised against** Not determined
- **Article category AC4** Stone, plaster, cement, glass and ceramic articles
- **Application of the substance / product** Auxiliary for manufacture of dental prothesis
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
VITA Zahnfabrik  
H. Rauter GmbH & Co. KG
  
- Postfach 1338  
D 79704 Bad Säckingen  
e-mail: info@vita-zahnfabrik.com
- Tel.: 07761/562-0  
Fax: 07761/562299
- **Emergency telephone number:** Tel.: ++49-(0)7761-562-0

#### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- **Label elements** None
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Safety phrases:**  
29 Do not empty into drains.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

#### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**  
AC4 Stone, plaster, cement, glass and ceramic articles  
article
- **Description:** Porous sintered ceramic network whose pores are filled with plastic.
- **Dangerous components:** Void
- **Additional information** For the wording of the listed risk phrases refer to section 16.

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Trade name: VITA ENAMIC

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#### 4 First aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** If symptoms persist consult doctor.
- **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 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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** Not required.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:** No special measures required.
- **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.

#### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** None.
- **Storage class** 10
- **Specific end use(s)** No further relevant information available.

#### 8 Exposure controls/personal protection

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

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- **Control parameters**
- **Ingredients with limit 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.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves -**
- **Penetration time of glove material -**
- **Eye protection:** Not required.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Solid.
<b>Colour:</b>	According to product specification
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

<b>Melting point/Melting range:</b>	undetermined
<b>Boiling point/Boiling range:</b>	undetermined
- **Flash point:** Not applicable
- **Flammability (solid, gaseous)** Not applicable.
- **Ignition temperature:**

<b>Decomposition temperature:</b>	Not determined.
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- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
- **Oxidizing properties** Not applicable
- **Vapour pressure:** Not determined.
- **Density at 20°C:** 2 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**

<b>Water:</b>	Not miscible or difficult to mix
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- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**

<b>dynamic:</b>	Not determined.
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<b>kinematic:</b>	Not determined.
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<b>· Solvent content:</b>	
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<b>· Organic solvents:</b>	0.0 %
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<b>· Other information</b>	No further relevant information available.
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### **10 Stability and reactivity**

- **Reactivity** No decomposition if used and stored according to specifications.
- **Chemical stability** No decomposition if used and stored 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**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### **12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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 packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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**14 Transport information**

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

**15 Regulatory information**

· **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.*

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

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## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA ENAMIC Blocs, Disc

Revision date: 06.03.2017

Product code: 270-US

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## 1. Identification

### Product identifier

VITA ENAMIC Blocs, Disc

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Stone, plaster, cement, glass and ceramic articles Auxiliary for manufacture of dental products

### Details of the supplier of the safety data sheet

Company name: VITA Zahnfabrik H. Rauter GmbH &amp; Co. KG

Post-office box: 1338

79704 Bad Säckingen

Telephone: +49(0)7761-562-0

Telefax: +49(0)7761-562-299

e-mail: info@vita-zahnfabrik.com

Internet: www.vita-zahnfabrik.com

**Emergency phone number:** +49-(0)761-19240

### Further Information

medical device

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

### Label elements

#### Hazards not otherwise classified

No information available.

## 3. Composition/information on ingredients

### Mixtures

#### Chemical characterization

Stone, plaster, cement, glass and ceramic articles

## 4. First-aid measures

### Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA ENAMIC Blocs, Disc

Revision date: 06.03.2017

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#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

#### **Specific hazards arising from the chemical**

Non-flammable.

#### **Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus.

## 6. Accidental release measures

#### **Personal precautions, protective equipment and emergency procedures**

Avoid generation of dust. Do not breathe dust.

#### **Environmental precautions**

No special environmental measures are necessary. Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **Methods and material for containment and cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### **Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## 7. Handling and storage

#### **Precautions for safe handling**

##### **Advice on safe handling**

No special measures are necessary.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

#### **Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed.

##### **Advice on storage compatibility**

No special measures are necessary.

## 8. Exposure controls/personal protection

#### **Control parameters**

#### **Exposure controls**

##### **Protective and hygiene measures**

Wash hands before breaks and after work. When using do not eat or drink.

##### **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### **Skin protection**

Wear suitable protective clothing.

##### **Respiratory protection**

Do not breathe dust. Provide adequate ventilation as well as local exhaustion at critical locations.

## Safety Data Sheet

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### VITA ENAMIC Blocs, Disc

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: solid  
 Color:  
 Odor: odourless

### Test method

pH-Value: not determined

### Changes in the physical state

Melting point/freezing point: not determined  
 Initial boiling point and boiling range: ?  
 Flash point: ?

### Flammability

Solid: not determined  
 Gas: not applicable  
 Lower explosion limits: not determined  
 Upper explosion limits: not determined

### Auto-ignition temperature

Solid: not determined  
 Gas: not applicable  
 Decomposition temperature: not determined

### Oxidizing properties

Not oxidizing.  
 Vapor pressure: <=1100 hPa  
 (at 50 °C)  
 Density: 2,00000 g/cm<sup>3</sup>  
 Water solubility: No

### Solubility in other solvents

not determined  
 Partition coefficient: not determined  
 Vapor density: not determined  
 Evaporation rate: not determined

### Other information

Solid content: 0,0 %

## 10. Stability and reactivity

### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

No known hazardous reactions.

### Conditions to avoid

none

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### VITA ENAMIC Blocs, Disc

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#### Incompatible materials

No information available.

#### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

#### Information on toxicological effects

##### **Acute toxicity**

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

##### **Irritation and corrosivity**

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

##### **Sensitizing effects**

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

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

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

##### **Specific target organ toxicity (STOT) - single exposure**

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

##### **Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

##### **Aspiration hazard**

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

##### **Additional information on tests**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

## 12. Ecological information

#### Ecotoxicity

The product is not: Ecotoxic.

#### Persistence and degradability

The product has not been tested.

#### Bioaccumulative potential

The product has not been tested.

#### Mobility in soil

The product has not been tested.

#### Other adverse effects

No information available.

#### **Further information**

Avoid release to the environment.

## 13. Disposal considerations

#### Waste treatment methods

##### **Advice on disposal**

Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

Completely emptied packages can be recycled.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA ENAMIC Blocs, Disc

Revision date: 06.03.2017

Product code: 270-US

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#### 14. Transport information

##### Marine transport (IMDG)

<b>UN number:</b>	No dangerous good in sense of this transport regulation.
<b>UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>Packing group:</b>	No dangerous good in sense of this transport regulation.

##### Air transport (ICAO-TI/IATA-DGR)

<b>UN number:</b>	No dangerous good in sense of this transport regulation.
<b>UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>Packing group:</b>	No dangerous good in sense of this transport regulation.

##### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

##### Special precautions for user

No information available.

##### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

#### 15. Regulatory information

##### U.S. Regulations

##### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### 16. Other information

Revision date: 06.03.2017

Revision No: 1

##### 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 Harmonized 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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

##### Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*