

# MATERIAL SAFETY DATA SHEET

Revision date 23 March 2009

## 1 Identification of substance

- 1.1 Product details / trade name **polycon ae**
- 1.2 Manufacturer / Supplier
- |                            |   |
|----------------------------|---|
| Name                       | <i>Straumann AG</i>                         |
| Address                    | <i>Lochhamer Schlag 6, 82166 Gräfelfing</i> |
| Phone                      | <i>089 / 30 90 75 0</i>                     |
| Fax                        | <i>089 / 30 90 75 599</i>                   |
| e-mail                     | <i>info@etkon.de</i>                        |
| Internet                   | <i>www.straumann.de</i>                     |
| Area providing information | <i>Phone or Fax</i>                         |
| Emergency information      | <i>As above</i>                             |
- 1.3 Emergency Information *As above*

## 2 Composition / Data on components

- 2.1 Application *Highly polymerized polymethyl methacrylate for fabricating temporary crowns and bridges*
- 2.2 Chemical characterization:

CAS No. Symbols statements	EEC No.	Designation of the component(s)	Part(s)	R
<i>000080-62-6</i>	<i>201-297-1</i>	<i>Methyl methacrylate</i>	<i>&gt; 1%</i>	

## 3 Hazards Identification

- 3.1 Information pertaining to particular dangers for man and environment  
*Sensitization by skin contact possible.*

## 4 First aid measures

- 4.1 General information *None*
- 4.2 After inhalation *With complaints after inhaling grinding dust consult a doctor*
- 4.3 After skin contact *Wash off with water and soap on skin contact.*
- 4.4 After eye contact *In the case of mechanical irritation of the eyes rinse thoroughly with water and consult doctor if irritation lasts longer.*

## 5 Fire fighting measures

*Unsuitable extinguishing media for safety reasons. Special protective equipment in fire fighting.*

## 6 Accidental release measures

*Polycon ae is available as a solid –unintentional release as with liquids and gases is therefore impossible.*

## 7 Handling and storage

- 7.1 Information for safe handling *Polycon ae may be processed only by trained employees. Observe instruction for use when processing, especially:*
- *Ensure sufficient cooling in milling process*

- Avoid dust formation and dust deposits
- Ventilate workplace sufficiently and use dust extraction

7.2 Storage

*No special requirements are placed on storage.*

**8 Exposure controls and personal protection**

8.1 Components with workplace-related threshold limit values that require monitoring

CAS No.	Designation of the substance	Peak limitation	Type	Value
	<i>Dust, particles</i>	<i>Exceeding factor 4</i>	<i>TLV 2001</i>	<i>10</i>
	<i>mg/m<sup>3</sup> E</i>			
	<i>Inhalable fraction</i>			
A	<i>Dust, particles</i>	<i>Exceeding factor 4</i>	<i>TLV2001</i>	<i>3mg/m3</i>
	<i>Alveolar fraction generally</i>			
A	<i>Dust, particles</i>	<i>Exceeding factor 4</i>	<i>TLV2001</i>	<i>6mg/m3</i>
	<i>Alveolar fraction – for activities/work areas according to No. 2.4, Para. 8 and 9 in conjunction with Para. 10 of TRGS 900.</i>			

80-62-6                      *Methyl Methacrylate*                      *Exceeding factor 1*    *TLV2000*    *210*  
*mg/m<sup>3</sup> 50ml/m3*  
*A risk of injury to an embryo need not be feared when the TLV and BLV are compiled with.*

96-33-3                      *Methyl acrylate*                      *Exceeding factor 1*    *TLV2000* *18mg/m3*  
*5 ml/m3*  
*H –Skin resorptive. With direct skin contact observe TRGS 150.*

94-36-0                      *Dibenzoyl peroxide*                      *Exceeding factor 1*    *TLV2000* *5 mg/m3E*

8.2 Work hygiene and personal protective equipment

Breathing protection            *Do not inhale dust. Breathing protecting in dust formation (Fine dust mast (FFP) or short-time filter unit with particle filter P2).*

Eye protection                      *Not required but is recommended for dust formation or machining*

*Use personal protective equipment (work coat, goggles, protective gloves)*

**9 Physical and chemical properties**

9.1 Appearance

Form    *Solid*

Color    *Differs according to dyeing*

Odor    *odorless*

9.2.1 pH value on delivery                      *Not applicable*

9.2.2 Condition change                      *Not applicable*

9.2.3 Flame point                      *> 250 C (ASTM D 1929-68)*

9.2.4 Ignition temperature                      *> 400 C (ASTM D 1929-68)*

9.2.5	Fire-promoting properties	<i>Not applicable</i>
9.2.6	Risk of explosion	<i>Not applicable</i>
9.2.7	Density	<i>App. 1.19 g/cm<sup>3</sup> at 20 C</i>
9.2.8	Solubility (mg/l) in water	<i>Insoluble</i>

## 10 Stability and reactivity

10.1 *Industrially produced solid for which thermal decomposition can be excluded in use as intended.*

## 11 Toxicological information

11.1. Additional toxicological information:

*Allergic reactions in humans have been described. The above data refer to the raw materials of methyl methacrylate and dibenzoyl peroxide contained in low concentration in the product. The biocompatibility tests performed on the teeth according to DIN EN ISO 10993 with regard to cytotoxicity, irritation, sensitization, hemolysis and gentoxicity according to OCED 471 resulted under the test conditions in no negative effects on the cell materials used.*

11.2 Experience from practice - Observations relevant to classification  
*Inhaling product dusts should be avoided.*

## 12 Ecological information

General notes

*Do not let undiluted or larger quantities get into the ground water, into waters or into the sewage system.*

## 13 Disposal considerations

Product recommendation

*This waste is not hazardous and can be disposed of together with the household waste.*

## 14 Transport regulations

14.1 *Not a hazardous substance in the meaning of the transport regulations.*

## 15 Regulatory Information

15.1 Identification according to EU Directives

*The product is classified and requires identification on the basis of the conventional method according to Appendix II, Part B or the preparation directive 1999/45/EU. However, since the product is sold in a form that represents a hazard neither for human health by inhalation, swallowing or skin contact nor for the waters, according to No. 9.3 Appendix VI or the directive 1999/45/EU the following identification according to Article 10 or according to Appendix V B, No. 9 is not required.*

15.2	Hazard-determining components for labeling	<i>Contains methyl methacrylate</i>	
15.2.1	R statements	Text(s)	<i>43 Sensitization by skin contact possible.</i>
15.2.2	S statements	Text(s)	<i>24 Avoid contact with the skin. 37 Wear suitable protective gloves.</i>
15.2.3	Special identification of certain preparations	<i>Not applicable</i>	
15.2.4	Notes on employment restriction	<i>Not applicable</i>	
15.2.5	Classification according to VbF: hazard class	Technical air instructions	Water
	<i>Not applicable</i>	<i>Not applicable</i>	<i>0</i>
15.2.6	Other regulations, restrictions and prohibitions	<i>Polycon ae does not require identification according to hazardous substance law.</i>	

## **16 Other information**

- 16.1 Training information *Information on use*
- 16.2 Department issuing the data sheet *Research and development*

### **NOTES**

The information in this safety data sheet is based on the current state of our knowledge and on our experience with the product. It serves exclusively for reducing risk in handling the product and therefore describes it only with regard to safety aspects. The information is thus no assurance of properties within the meaning of our General Terms of Business. It also does not relieve the user from his duty to take care with regard to compliance with applicable laws, regulations and provisions.

We provide our safety data sheets on request free of charge on first-time purchase of the product, further copies can be requested against reimbursement of costs. When the safety data sheet is updated, we inform in agreement with the relevant regulations all those users who have received the safety data sheet from us in the course of the last 12 months before the update. This is done by sending the updated version free of charge. Owners of older safety data sheets can inquire the relevant revision status (=last changed).