

**Trade name:** Wirosil 2 x 1kg REF 52001

**Current version :** 6.0.1, issued: 21.04.2017

**Replaced version:** 6.0.0, issued: 21.07.2016

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Wirosil 2 x 1kg REF 52001**

**Wirosil 2 x 10kg REF 51995, 51996, 51997**

**Wirosil plus 2 x 1kg REF 54854**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Manufacturing of dental prosthesis in a dental laboratory

**Uses advised against**

No data available.

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

**Address**

BEGO Bremer Goldschlägerei

Wilh. Herbst GmbH & Co. KG

Wilhelm-Herbst-Str. 1

28359 Bremen

Telephone no. +49/ 421/ 2028 – 0

Fax no. +49/ 421/ 2028 – 115

e-mail msds@bego.com

**Information provided by / telephone**

Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 – 130 (Chief Development Officer alloys)

**Advice on Safety Data Sheet**

msds@bego.com

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

This product does not meet the classification and labelling criteria given in the Dangerous Preparations Directive (1999/45/EC; DPD)

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

Chemical compounds containing silicon - hydrogen bonds (SiH). Please observe the information given in this safety data sheet.

PBT assessment

No data available.

vPvB assessment

No data available.

**Trade name:** Wirosil 2 x 1kg REF 52001

**Current version :** 6.0.1, issued: 21.04.2017

**Replaced version:** 6.0.0, issued: 21.07.2016

**Region:** GB

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Chemical characterization

polyorganosiloxane based mixture

#### Hazardous ingredients

This product does not contain substances to be mentioned according to EU Regulation No 1907/2006 (REACH), annex II.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area.

#### After skin contact

Wash off immediately with soap and water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray jet; Foam; Carbon dioxide; Extinguishing powder

#### Unsuitable extinguishing media

High power water jet; alkaline extinguishing powder

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

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; amorphous silicic acid

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away sources of ignition.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**Trade name:** Wirosil 2 x 1kg REF 52001

**Current version :** 6.0.1, issued: 21.04.2017

**Replaced version:** 6.0.0, issued: 21.07.2016

**Region:** GB

## 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under heading "Disposal considerations".

## 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Remove soiled or soaked clothing immediately. Provide eye wash fountain in work area. Avoid contact with eyes and skin.

#### Advice on protection against fire and explosion

The product may release hydrogen on contact with strong acids or bases. Vapours can form an explosive mixture with air. Keep away from sources of heat and ignition.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Keep only in the original container (with safety valve). Containers which are opened must be carefully closed and kept upright to prevent leakage.

Appropriate Material steel; plastic

#### Advice on storage assembly

Do not store together with: Oxidizing agents; Bases; Alkalies; Metal salts; Acids

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

#### Personal protective equipment

##### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

##### Eye / face protection

Safety glasses (EN 166)

##### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile  
Appropriate Material PVC  
Appropriate Material rubber  
Appropriate Material plastic

Trade name: Wirosil 2 x 1kg REF 52001

Current version : 6.0.1, issued: 21.04.2017

Replaced version: 6.0.0, issued: 21.07.2016

Region: GB

**Other**

Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                  |           |      |     |
|--------------------------------------------------|-----------|------|-----|
| <b>Form/Colour</b>                               |           |      |     |
| liquid, viscous                                  |           |      |     |
| product specific; various                        |           |      |     |
| <b>Odour</b>                                     |           |      |     |
| odourless                                        |           |      |     |
| <b>Odour threshold</b>                           |           |      |     |
| No data available                                |           |      |     |
| <b>pH value</b>                                  |           |      |     |
| No data available                                |           |      |     |
| <b>Boiling point / boiling range</b>             |           |      |     |
| No data available                                |           |      |     |
| <b>Melting point / melting range</b>             |           |      |     |
| No data available                                |           |      |     |
| <b>Decomposition point / decomposition range</b> |           |      |     |
| Value                                            | >         | 200  | °C  |
| <b>Flash point</b>                               |           |      |     |
| Value                                            | >         | 200  | °C  |
| Method                                           | ASTM D 56 |      |     |
| <b>Ignition temperature</b>                      |           |      |     |
| Value                                            | >         | 400  | °C  |
| <b>Auto-ignition temperature</b>                 |           |      |     |
| No data available                                |           |      |     |
| <b>Oxidising properties</b>                      |           |      |     |
| No data available                                |           |      |     |
| <b>Explosive properties</b>                      |           |      |     |
| No data available                                |           |      |     |
| <b>Flammability (solid, gas)</b>                 |           |      |     |
| No data available                                |           |      |     |
| <b>Lower flammability or explosive limits</b>    |           |      |     |
| No data available                                |           |      |     |
| <b>Upper flammability or explosive limits</b>    |           |      |     |
| No data available                                |           |      |     |
| <b>Vapour pressure</b>                           |           |      |     |
| Value                                            | <         | 0.01 | kPa |
| Reference temperature                            |           | 20   | °C  |

Trade name: Wirosil 2 x 1kg REF 52001

Current version : 6.0.1, issued: 21.04.2017

Replaced version: 6.0.0, issued: 21.07.2016

Region: GB

**Vapour density**

No data available

**Evaporation rate**

No data available

**Relative density**

No data available

**Density**

|                       |      |                   |
|-----------------------|------|-------------------|
| Value                 | 1.05 | g/cm <sup>3</sup> |
| Reference temperature | 25   | °C                |

**Solubility in water**

|         |           |
|---------|-----------|
| Remarks | insoluble |
|---------|-----------|

**Solubility(ies)**

|         |                                        |
|---------|----------------------------------------|
| Remarks | Partially soluble in organic solvents. |
|---------|----------------------------------------|

**Partition coefficient: n-octanol/water**

No data available

**Viscosity**

|       |         |      |       |
|-------|---------|------|-------|
| Value | appr.   | 5000 | mPa*s |
| Type  | dynamic |      |       |

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Formation of hydrogen gas upon contact with materials to avoid. Explosion hazard.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

strong oxidizing agents; Alkalies; Bases; Acids; Metal salts

**10.6 Hazardous decomposition products**

In case of fire the following can be released: amorphous silicic acid

**Trade name:** Wirocil 2 x 1kg REF 52001**Current version :** 6.0.1, issued: 21.04.2017**Replaced version:** 6.0.0, issued: 21.07.2016**Region:** GB**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity**

No data available

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Reproduction toxicity**

No data available

**Carcinogenicity**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration hazard**

No data available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Contact with the skin and eyes may cause mechanical irritation.

Trade name: Wirosil 2 x 1kg REF 52001

Current version : 6.0.1, issued: 21.04.2017

Replaced version: 6.0.0, issued: 21.07.2016

Region: GB

**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish (acute)**

No data available

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No data available

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No data available

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment****Results of PBT and vPvB assessment**

PBT assessment

No data available.

vPvB assessment

No data available.

**12.6 Other adverse effects**

No data available.

**12.7 Other information****Other information**

Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**Trade name:** Wirosil 2 x 1kg REF 52001

**Current version :** 6.0.1, issued: 21.04.2017

**Replaced version:** 6.0.0, issued: 21.07.2016

**Region:** GB

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

#### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

#### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

#### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

#### **Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2 Chemical safety assessment

No data available.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

#### **Department issuing safety data sheet**

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

---

**Trade name:** Wirosil 2 x 1kg REF 52001

**Current version :** 6.0.1, issued: 21.04.2017

**Replaced version:** 6.0.0, issued: 21.07.2016

**Region:** GB

---

This information is based on our present knowledge and experience.  
The safety data sheet describes products with a view to safety requirements.  
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCÖ GmbH.