

**Trade name:** Graphitecylinder (REF 52468)

**Current version :** 4.1.0, issued: 21.12.2022

**Replaced version:** 4.0.0, issued: 08.04.2019

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Graphitecylinder (REF 52468)**

**Nautilus graphitecylinder (REF 52468)**

**Nautilus glassycarboncylinder (REF 52473)**

**Glassy carbon inserts for Fornax ceramic crucibles (REF 54883)**

**Fornax tilting crucible graphite inserts (REF 52432)**

**Fornax crucible graphite inserts (REF 52454)**

Substance name Carbon

**Identification numbers**

CAS no. 7440-44-0

EC no. 231-153-3

### 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 is an article in the sense of Article 3 of Regulation (EC) 1907/2006 (REACH) and is not subject to labelling according to Article 1, Regulation (EC) 1272/2008 (CLP).

Provision of a safety data sheet is not mandatory for articles according to Article 31 of Regulation (EC) 1907/2006 (REACH) and is done on a voluntary basis.

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

PBT assessment

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No data available.

vPvB assessment

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Chemical characterization

Substance name Carbon

#### Identification numbers

CAS no. 7440-44-0

EC no. 231-153-3

### 3.2 Mixtures

Not applicable. The product is not a mixture.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when sickness symptoms persist, seek medical attention.

#### After inhalation

No special measures necessary.

#### After skin contact

No special measures necessary.

#### After eye contact

No special measures necessary.

#### After ingestion

No special measures necessary.

### 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

Carbon dioxide; Extinguishing powder; Water spray jet

#### Unsuitable extinguishing media

High power water jet

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

No data available.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## 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.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

### 6.2 Environmental precautions

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No special measures necessary.

## 6.3 Methods and material for containment and cleaning up

Collect mechanically. When collected, handle material as described under the section 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

No special measures 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 foodstuffs and beverages.

### Advice on protection against fire and explosion

No special measures necessary.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

No special measures necessary.

### Requirements for storage rooms and vessels

No special measures required.

### Incompatible products

None known

## 7.3 Specific end use(s)

No data available.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### Occupational exposure limit values

| No                                                       | Substance name                            | CAS no.   | EC no.    |
|----------------------------------------------------------|-------------------------------------------|-----------|-----------|
| 1                                                        | Carbon                                    | 7440-44-0 | 231-153-3 |
| List of approved workplace exposure limits (WELs) / EH40 |                                           |           |           |
|                                                          | Graphite inhalable dust                   |           |           |
|                                                          | WEL long-term (8-hr TWA reference period) | 10        | ppm       |
| List of approved workplace exposure limits (WELs) / EH40 |                                           |           |           |
|                                                          | Graphite respirable dust                  |           |           |
|                                                          | WEL long-term (8-hr TWA reference period) | 4         | ppm       |

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

Not necessary.

#### Eye / face protection

No special measures required.

#### Hand protection

No special measures required.

#### Other

No special measures required.

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No data available.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                          |                   |
|----------------------------------------------------------|-------------------|
| <b>State of aggregation</b>                              | solid             |
| <b>Form</b>                                              | solid             |
| <b>Colour</b>                                            | dark grey         |
| <b>Odour</b>                                             | odourless         |
| <b>pH value</b>                                          | No data available |
| <b>Boiling point / boiling range</b>                     | No data available |
| <b>Melting point/freezing point</b>                      | No data available |
| <b>Decomposition temperature</b>                         | No data available |
| <b>Flash point</b>                                       | No data available |
| <b>Ignition temperature</b>                              | No data available |
| <b>Flammability</b>                                      | No data available |
| <b>Lower explosion limit</b>                             | No data available |
| <b>Upper explosion limit</b>                             | No data available |
| <b>Vapour pressure</b>                                   | No data available |
| <b>Relative vapour density</b>                           | No data available |
| <b>Relative density</b>                                  | No data available |
| <b>Density</b>                                           | No data available |
| <b>Solubility</b>                                        | No data available |
| <b>Partition coefficient n-octanol/water (log value)</b> | No data available |
| <b>Kinematic viscosity</b>                               | No data available |
| <b>Particle characteristics</b>                          | No data available |

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## 9.2 Other information

### Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

None, if handled according to intended use.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 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

### 11.2 Information on other hazards

Endocrine disrupting properties

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No data available.

**Other information**

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

|                                      |
|--------------------------------------|
| <b>Toxicity to fish (acute)</b>      |
| No data available                    |
| <b>Toxicity to fish (chronic)</b>    |
| No data available                    |
| <b>Toxicity to Daphnia (acute)</b>   |
| No data available                    |
| <b>Toxicity to Daphnia (chronic)</b> |
| No data available                    |
| <b>Toxicity to algae (acute)</b>     |
| No data available                    |
| <b>Toxicity to algae (chronic)</b>   |
| No data available                    |
| <b>Bacteria toxicity</b>             |
| 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

|                                           |                    |
|-------------------------------------------|--------------------|
| <b>Results of PBT and vPvB assessment</b> |                    |
| PBT assessment                            | No data available. |
| vPvB assessment                           | No data available. |

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

No data available.

## 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**

Residues 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.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

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

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## 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 Maritime transport in bulk according to IMO instruments

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)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

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

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

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

The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

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

This substance 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.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

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 section.

#### **Creation of the 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

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.

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