

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## BECOSORB 1000, 2500, 6000

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

#### 1.1. Product identifier

**Trade name/designation:**

**BECOSORB 1000, 2500, 6000**

**CAS No.:**  
7631-86-9

**REACH No.:**  
01-2119379499-16

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

**Use of the substance/mixture:**

Product for Beverage treatment

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**Eaton Technologies GmbH**

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

**Telephone:** +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

**Telefax:** +49 6704 204-121

**E-mail:** SDB@Eaton.com

**Website:** www.eaton.com/filtration

#### 1.4. Emergency telephone number

No data available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**Additional information:**

Additional information: No risks worthy of mention. Please observe the information on the safety data sheet at all times.

#### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

##### Precautionary statements Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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##### Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P374	Fight fire with normal precautions from a reasonable distance.

#### 2.3. Other hazards

**Adverse human health effects and symptoms:**

The product is very adsorbent and may have a drying effect on skin and eyes. When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

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## BECOSORB 1000, 2500, 6000

### SECTION 3: Composition / information on ingredients

#### 3.1. Substances

**Description:**

Amorphous silicon dioxide, chemically prepared. (CAS-Nr. 7631-86-9; EINECS-Nr. 231-545-4).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information:**

No special measures are required.

**Following inhalation:**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

After contact with skin, wash immediately with: Water

**After eye contact:**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**Following ingestion:**

Rinse mouth immediately and drink plenty of water. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

No information available.

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

No information available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

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

No information available.

#### 5.3. Advice for firefighters

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

#### 5.4. Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Avoid dust formation.

Wear personal protection equipment.

##### 6.1.2. For emergency responders

No data available

#### 6.2. Environmental precautions

Knock down dust with water spray jet.

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

**For cleaning up:**

Avoid dust formation. Take up mechanically, placing in appropriate containers for disposal.

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### 6.4. Reference to other sections

No data available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Keep container tightly closed. Avoid dust formation. Dust should be exhausted directly at the point of origin.

##### Fire prevent measures:

Take precautionary measures against static discharges.  
The product itself does not burn.

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

#### Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place. Keep container dry. This product is hygroscopic.

#### Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

**Storage class (TRGS 510, Germany):** 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4	① 4 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

See chapter 7. Additional information on plant design:

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses

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### Skin protection:

Protect skin by using skin protective cream.

Suitable material:

NBR (Nitrile rubber)

Butyl caoutchouc (butyl rubber)

EN 388: Minimum requirements for efficiency level 1 for all groups.

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.

Thickness of the glove material:  $\geq 0,11$  mm

Breakthrough time:  $> 480$  min.

EN 420: Minimum requirements for efficiency level 1 for all groups.

### Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation

Suitable respiratory protection apparatus: Filtering device (DIN EN 147) P 2

### Other protection measures:

Protective clothing: Wear personal protection equipment.

Take off immediately all contaminated clothing.

General health and safety measures: The usual precautionary measures are to be adhered to when handling chemicals.

### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

DNEL/DMEL:

Human, inhalative, short term:  $4 \text{ mg/m}^3$

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Powder

**Colour:** white

**Odour:** odourless

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	3 - 6	20 °C		
Melting point	$> 1,700$ °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	$> 999$ °C			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

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### 9.2. Other information

Entzündlichkeit (Feststoff/Gas): Non-flammable.

Explosionsgefahr: not explosive.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Substance is, under normal conditions, chemically stable.

### 10.3. Possibility of hazardous reactions

not known.

### 10.4. Conditions to avoid

No information available.

Protect from moisture.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

## SECTION 11: Toxicological information

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

Substance name	Toxicological information
silicon dioxide CAS No.: 7631-86-9 EC No.: 231-545-4	<b>LD<sub>50</sub> oral:</b> 10,000 mg/kg (Ratte.) <b>LD<sub>50</sub> dermal:</b> 5,000 mg/kg (Kaninchen.) <b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 2,080 mg/m <sup>3</sup> 4 h (Ratte.)

#### Skin corrosion/irritation:

irritant.

Primary irritations of the mucous membrane: Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/irritation:

non-irritant.

#### Respiratory or skin sensitisation:

not known.

#### Carcinogenicity:

NOAEL: fertility: 500 mg/kg bw/day Rat 6 months

NOAEL: teratogenicity: 1600 mg/kg bw/day Rabbit OECD 414

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### Additional information:

Repeated dose toxicity

Acute toxicity (oral)

NOAEL:

4500 mg/kg bw/day Mouse OECD 452 OECD 453

2000 mg/kg bw/day Rat OECD 452 OECD 453

NOEL:

8000 mg/kg bw/day Rat OECD 408

Acute toxicity (inhalative)

LOAEC

25,1 mg/m<sup>3</sup> Rat OECD 412 5 d

NOAEC

5,13 mg/m<sup>3</sup> Rat OECD 412 5 d

NOAEL:

1 mg/m<sup>3</sup> (Human experience:)

NOEC

0,94 mg/m<sup>3</sup> Rat OECD 412 5 d

### 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

Acute fish toxicity:

Danio rerio (zebrafish): LC0: 10000 mg/l, (96h)

Acute Daphnia toxicity:

Daphnia magna: EC0: 1000 mg/L, (24h)

Daphnia magna: EC50: >10000 mg/L, (24h)

Algae toxicity:

Scenedesmus subspicatus EC50 > 10000 mg/l, (72h) OECD 201

### 12.2. Persistence and degradability

#### Additional information:

Further ecological information: No information available.

### 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

No information available.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 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

The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by the waste producer.

#### Waste treatment options

#### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

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### SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

#### 14.1. UN number or ID number

not relevant

#### 14.2. UN proper shipping name

not relevant

#### 14.3. Transport hazard class(es)

not relevant

#### 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

#### 14.6. Special precautions for user

not relevant

#### 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

##### 15.1.1. EU legislation

No data available

##### 15.1.2. National regulations

##### [DE] National regulations

#### Water hazard class

##### WGK:

nwg - nicht wassergefährdend

##### Source:

Anh. 1

#### Other regulations, restrictions and prohibition regulations

For this substance a chemical safety assessment has not been carried out.

#### 15.2. Chemical Safety Assessment

No data available

### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available

#### 16.3. Key literature references and sources for data

No data available

#### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

##### Classification according to Regulation (EC) No 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.