



## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

#### 1.1. Product identifiers

**BECOSORB 1000, 2500, 6000**

REACH registration No.: 01-2119379499-16-xxxx

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

Use of the substance/ preparation: Product for Beverage treatment

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

Supplier (manufacturer/importer/  
downstream user/distributor): Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Telephone: +49 6704 204-0

Telefax: +49 6704 204-121

E-mail (competent person): SDB@Eaton.com

Dept. responsible for information: Produktmanagement  
Only available during office hours.

Information telephone: +49 6704 204-0

#### 1.4. Emergency telephone number

Dept. responsible for information: Produktmanagement  
Only available during office hours.

Emergency telephone: +49 6704 204-0

### SECTION 2: Hazards identification

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

##### Classification according to EC regulation 1272/2008 (CLP):

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

##### Classification according to Directive 67/548/EEC or 1999/45/EC:

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

##### Further remarks:

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

#### 2.2. Label elements

##### Labelling (CLP)

##### Safety precautions:

Safety precautions:	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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

##### Possible harmful effect(s) on human beings and possible symptom(s):

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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## SECTION 3: Composition / Information on ingredients

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### Chemical characterization (preparation):

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

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## SECTION 4: First aid measures

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### 4.1. Description of first aid measures

#### General information:

No special measures are required.

#### After 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.

#### In case of 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.

#### After 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

#### Information to physician:

No information available.

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## SECTION 5: Firefighting measures

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### 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

#### Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

No information available.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters:

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

#### Additional information:

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

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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Avoid generation of dust.

Wear personal protection equipment.

#### 6.1.2. For emergency responders

### 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

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**Methods for cleaning up:**

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

**6.4. Reference to other sections****SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advices on safe handling:**

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

**Precautions against fire and explosion:**

Take precautionary measures against static discharges.

The product itself does not burn.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storerooms and containers:**

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

**Hints on joint storage:**

Keep away from food, drink and animal feeding stuffs.

**Storage class:** 13**7.3. Specific end use(s)****SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:****Occupational exposure limit values:**

CAS No.	Chemical name	AGW (DE)	Unit	ppm	Peak limitation	Remark
7631-86-9	silicon dioxide	4E	mg/m <sup>3</sup>			DFG, 2, Y

**Remarks:**

DNEL/DMEL:

Human, inhalative, short term: 4 mg/m<sup>3</sup>**8.2. Exposure controls****8.2.1. Appropriate engineering controls****Technical measures:**

See chapter 7. Additional information on plant design.

**8.2.2. Personal protective equipment****Respiratory protection:** Respiratory protection necessary at/for: exceeding exposure limit values, insufficient ventilation.

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

**Suitable material:** NBR (Nitrile 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**Penetration time (maximum wearing period):**  $> 480$  min.

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

**Eye protection:** Eye glasses.**Body protection:** Wear personal protection equipment.

Take off immediately all contaminated clothing.

Protect skin by using skin protective cream.

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**General protection and hygiene measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**8.2.3. Environmental exposure controls:****SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Physical state:** Powder  
**Colour:** white  
**Odour:** odourless

**Important health, safety and environmental information:**

		Unit	Method
pH:	3 - 6		at °C 20
Boiling temperature / boiling range:	>999	°C	
Melting point / melting range:	>1700	°C	
Flammability:	<i>Non-flammable.</i>		
Explosivity:	<i>not explosive.</i>		

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity****10.2. Chemical stability**

Substance is, under normal conditions, chemically stable.  
 Protect from moisture.

**10.3. Possibility of hazardous reactions**

not known.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

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

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity:**

CAS No.	Chemical name	LD50: oral	Unit	Species	LD50: dermal	Unit	Species	LC50: inhalativ	Unit	Species
7631-86-9	silicon dioxide	> 10000	mg/kg	Ratte.	> 5000	mg/kg	Kaninchen.	> 2080	mg/m³	Ratte.

CAS No.	Chemical name	Method: oral	Method: dermal	Method: inhalativ	h	Remark
7631-86-9	silicon dioxide				4	

**Irritant and corrosive effects:**

Irritant effect on the skin: irritant. Primary irritations of the mucous membrane:

Irritant effect on the eye: Not an irritant.

Repeated exposure may cause skin dryness or cracking.

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**Sensitisation:**

not known.

**Repeated dose toxicity:**

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**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

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

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

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**SECTION 12: Ecological information**

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**12.1. Toxicity****Aquatic toxicity:**

Acute fish toxicity

Brachydanio rerio (zebrafish): LC 0: 10000 mg/l, (96h)

Acute Daphnia toxicity

Daphnia magna EC 0: 1000 mg/l, (24h)

Daphnia magna EC50: &gt;10000 mg/l, (24h)

Algae toxicity

Scenedesmus subspicatus EC50: &gt; 10000 mg/l, (72h) OECD 201

**12.2. Persistence and degradability****Method:**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil****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. Other adverse effects**

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**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods****Recommendation:**

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.

**Contaminated packaging:****Recommendation:**

Non-contaminated packages may be recycled.

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## SECTION 14: Transport information

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14.1. Land transport (ADR/RID)

14.2. Inland waterway craft (ADN/ADNR)

14.3. Sea transport (IMDG)

14.4. Air transport (ICAO-TI / IATA-DGR)

14.5. Additional information:

No dangerous good in sense of these transport regulations.

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## SECTION 15: Regulatory information

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

Water Hazard Class: n Source: Anh. 1

Other regulations (EU):

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

15.2. Chemical Safety Assessment

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## SECTION 16: Other information

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**Further remarks:**

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.

**E-mail (competent person):**

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