

SAFETY DATA SHEET

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

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Powering Business Worldwide

BECOSOL 30

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

1.1. Product identifier

Trade name/designation:

BECOSOL 30

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

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

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264.1	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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Precautionary statements Storage

P410	Protect from sunlight.
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2.3. Other hazards

Adverse physicochemical effects:

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

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Aqueous, colloidal, slightly alkaline silicadispersion.

CAS No: 7631-86-9

EINECS No.: 231-545-4

Silicium dioxide.: 5 - 55 %

Water: 45 - 95 %

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

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

Following inhalation:

Provide fresh air. If large amounts are inhaled, rinse out nose/mouth with water.

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

IF ON CLOTHING: Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.

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. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion:

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

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

Treat symptomatically.

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.

Unsuitable extinguishing media:

High power water jet

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

Wear personal protection equipment.

5.4. Additional information

No data available

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear personal protection equipment.

Conditions to avoid: aerosol or mist formation

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal. Wash with plenty of water.

Do not allow to dry.

6.4. Reference to other sections

No data available

6.5. Additional information

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not get in eyes, on skin, or on clothing.

Conditions to avoid: aerosol or mist formation

When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed.

Protect against:

Light

Frost

Hints on storage assembly:

Observe the rules contained in the VCI concept for separate/common storage. Observe official regulations.

Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

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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	① 4 mg/m ³ ⑤ (einatembare Fraktion)
DFG (DE)	silicon dioxide CAS No.: 7631-86-9	① 0.3 mg/m ³ ⑤ (alveolengängige 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

Provide means of rinsing with water (possibly cleaning with alkali lye), choice of pump/danger of incrustation, washing facilities for personnel. It should be possible to completely empty containers.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses

Skin protection:

Protect skin by using skin protective cream.

Hand protection: Suitable gloves type:

Suitable material:

NBR (Nitrile rubber)

Butyl caoutchouc (butyl rubber)

Thickness of the glove material: $\geq 0,35$ mm

Breakthrough time (maximum wearing time): The exact break through time has to be found out by the manufacturer of the protective gloves nad has to be observed.

Respiratory protection:

Respiratory protection necessary at: aerosol or mist formation, exceeding exposure limit values

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

Other protection measures:

Protective clothing: Wear suitable protective clothing.

General health and safety measures.

The product should be handled with the care usual when dealing with chemicals.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

DNEL/DMEL

Worker, professional. : Human, inhalative, long term/repeated: 4 mg/m³

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: opaque-white

Odour: odourless

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Safety relevant basis data

parameter		at °C	Method	Remark
pH	8 - 10.5	25 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	100 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	≈ 20 hPa	20 °C		
Vapour density	<i>not determined</i>			
Density	1.05 - 1.45 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	2 - 50 mPa*s	20 °C		
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

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

No information available.

10.4. Conditions to avoid

Do not allow to dry.

Frost

storage temperature: < 5%

10.5. Incompatible materials

Acids and cationic agents will cause premature gelling. All contamination should be avoided.

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

CAS No.	Substance name	Toxicological information
7631-86-9	silicon dioxide	LD₅₀ oral: 10,000 mg/kg (Ratte.) LD₅₀ dermal: 5,000 mg/kg (Kaninchen.) LC₅₀ inhalative: 2,080 mg/m ³ 4 h (Ratte.)

Acute oral toxicity:

Toxicological data are not available.

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Acute dermal toxicity:

Toxicological data are not available.

Acute inhalation toxicity:

Toxicological data are not available.

Skin corrosion/irritation:

Silicon dioxide (SiO₂)

Rabbit: Not an irritant.

Eye damage/irritation:

Silicon dioxide (SiO₂)

Rabbit: Not an irritant.

Respiratory or skin sensitisation:

No known symptoms to date.

Carcinogenicity:

Silicon dioxide (SiO₂)

Ames test negative.

Additional information:

Repeated dose toxicity (subacute, subchronic, chronic): Silicium dioxide.

STOT-repeated exposure

oral

NOAEL: 4500 mg/kg bw/day Mouse (OECD 452 OECD 453)

NOAEL: 2000 mg/kg bw/day Rat (OECD 452 OECD 453)

NOEL: 8000 mg/kg bw/day Rat

inhalation.

LOAEC 25,1 mg/m³ Rat (OECD 412 (5d))

NOAEC 5,13 mg/m³ Rat (OECD 412 (5d))

NOAEL: 1 mg/m³ (human)

NOEC 0,94 mg/m³ Rat (OECD 412 (5d))

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

Silicium dioxide.

EC0: 24h 1000 mg/L Daphnia magna

EC50: 24 h >10000 mg/L Daphnia magna

EC50: 72 h >10000 mg/L Scenedesmus subspicatus

12.2. Persistence and degradability

Additional information:

Further ecological information: Produkt is a weak alkaline solution. Neutralisation is normally necessary before waste water is discharged into sewage treatment plants. Do not allow to enter into surface water or drains. According to the present state of knowledge negative ecological effects are not expected.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

not applicable

12.4. Mobility in soil

not applicable

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available

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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.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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)

WGK:

nwg - nicht wassergefährdend

Source:

S Selbsteinstufung

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

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

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.