

BECOSOL 30

Revision date: 13.06.2006 / 23.04.2015 Version: 3 Date of print: 05.01.2016



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

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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 GmbHLangenlonsheim 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):

none/none

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

none/none

2.2. Label elements

Labelling (CLP)

Safety precautions:

Safety precautions:	
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 no eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410	Protect from sunlight.

2.3. Other hazards

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Possible harmful physico-chemical effects:

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

SECTION 3: Composition / Information on ingredients**Chemical characterization (preparation):**

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.

After 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.

Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.

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. 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**4.3. Indication of any immediate medical attention and special treatment needed****Information to physician:**

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.

Extinguishing media which must not be used for safety reasons:

High power water jet.

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:**

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**Special protective equipment for firefighters:**

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

Wear personal protection equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

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Personal precautions:

Wear personal protection equipment.
Conditions to avoid : aerosol or mist formation

6.1.2. For emergency responders**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**Methods 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**SECTION 7: Handling and storage****7.1. Precautions for safe handling****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 storerooms and containers:**

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

Protect against:

Light
frost.

Hints on joint storage:

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

Storage class: 12

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 ³			DFG, 2, Y

Remarks:

DNEL/DMEL

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

8.2. Exposure controls**8.2.1. Appropriate engineering controls****Technical measures:**

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 protective equipment

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

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

Hand protection: Suitable gloves type:**Suitable material:** NBR (Nitrile rubber).

Butyl caoutchouc (butyl rubber).

Thickness of the glove material: $\geq 0,35$ mm**Penetration time (maximum wearing period):** The exact break through time has to be found out by the manufacturer of the protective gloves nad has to be observed.**Eye protection:** Eye glasses.**Body protection:** Wear suitable protective clothing.

Protect skin by using skin protective cream.

General protection and hygiene measures:

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

8.2.3. Environmental exposure controls:**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Physical state:** liquid**Colour:** opaque-white**Odour:** odourless**Important health, safety and environmental information:**

			Unit	Method
pH:	8	- 10,5		at °C 25
Boiling temperature / boiling range:		- 100	°C	
Vapour pressure:	ca. 20		hPa	at °C 20
Density:	1.05	- 1.45	g/cm ³	at °C 20
Viscosity:	2	- 50	mPa s	at °C 20

9.2. Other information**SECTION 10: Stability and reactivity****10.1. Reactivity****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****Acute toxicity:**

Toxicological data are not available.

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Acute toxicity:

CAS No.	Chemical name	LD50: oral	Unit	Species	LD50: dermal	Unit	Species	LC50: inhalat iv	Unit	Species
7631-86-9	silicon dioxide	> 10000	mg/kg	Rat.	> 5000	mg/m ³	Rabbit.	> 2	g/m ³	Rat.

CAS No.	Chemical name	Method: oral	Method: dermal	Method: inhalativ	h	Remark
7631-86-9	silicon dioxide				4	auf der Grundlage ähnlicher Produkte.

Irritant and corrosive effects:

Silicium dioxide.

Irritant effect on the skin: Rabbit. : Not an irritant.

Irritant effect on the eye: Rabbit. : Not an irritant.

Sensitisation:

No known symptoms to date.

Repeated dose toxicity:

Silicium dioxide.

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

Silicium dioxide.

Ames test negative.

SECTION 12: Ecological information**12.1. Toxicity****Aquatic toxicity:**

Silicium dioxide.

EC 0:24h 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**Method:**

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.

Further details:

According to the present state of knowledge negative ecological effects are not expected.

12.3. Bioaccumulative potential

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**SECTION 13: Disposal considerations****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.

SECTION 14: Transport information**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.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Water Hazard Class: n Source: S Selbsteinstufung

15.2. Chemical Safety Assessment**SECTION 16: Other information****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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