

# CONVEYOR BELT CLEANER BIO CLEAN 2000

Art.-no. A-ZUB-000002

Revised on: 29.03.2022

## 01 Identification of substance/mixture and of the company undertaking

### 1.1. Product identifier

Conveyor Belt Cleaner Bio Clean 2000

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

#### Substance/mixture use

Commercial cleaner for industrial use

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

Company name: boeck GmbH  
Street: Ludwigstraße 8  
Location: 89340 Leipheim  
Phone number: +49 (0) 8221 96 43 700  
E-mail: info@boeck-technology.de  
Website: www.boeck-technology.de  
Contact person: Marc Böck  
E-mail: m.boeck@boeck-technology.de

### 1.4. Emergency phone number:

+49/(0)2324/ 979817

## 02 Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EG) no. 1272/2008

Hazard classification:

Caustic/irritant effect on the skin: Skin irritation Category 2

Severe eye damage/irritation: Eye irritation Category 1

Hazard warnings:

Causes skin irritation

Causes severe eye damage

### 2.2. Label elements

Regulation (EG) no. 1272/2008

#### Hazard-determining components of labeling

Sodium metasilicate pentahydrate

**Signal word:** Warning

**Pictogram:**



**Hazard warnings**

H315 Causes skin irritation.  
H318 Causes severe eye damage.

**Safety warnings**

P280 Wear protective gloves/clothing, eye protection, face protection.  
P302+P352 IN CASE OF SKIN CONTACT: rinse off with plenty of water.  
P332+P313 In case of skin irritation: seek medical advice/assistance.  
P362+P364 Take off contaminated clothes and wash before reuse.  
P305+P351+P338 IN CASE OF CONTACT WITH EYES: Rinse gently with water for a few minutes.  
Remove any contact lenses, if applicable and possible.  
Continue rinsing.  
P310 Immediately contact POISON CENTRE / physician.

**2.3. Other hazards**

No information available.

## 03 Composition / information on ingredients

**3.1. Mixtures**

General chemical description

Detergent composed of (compliant with EC 648/2004 regulation on Detergents): < 5 % non-ionic surfactants, < 5% anionic surfactants, silicates, glyconates, alcohols

**Dangerous components**

CAS no.	Chemical characterization			%
	EC no.	Index no.	REACH no.	
	GHS classification			
68154-97-2	Alcohols, C10-12, ethoxylated, propoxylated			1 - < 5 %
	935-890-8			
	Eye irrit. 2; H319			
112-34-5	2-(2-Butoxyethoxy)ethanol; Diethylene glycol monobutyl ether; Butyl diglycol			1-< 5 %
	203-961-6	603-096-00-8		
	Eye irrit. 2; H319			
10213-79-3	Sodium Metasilicate Pentahydrate			1 - < 5 %
	229-912-9		01-2119449811-37	
	Met. Corr. 1, Skin Corr. 1B, STOT SE 3; H290 H314 H335			

Wording of H- and EUH-phrases: see section 16.

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## 04 First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Rinse off with plenty of water. Remove contaminated clothing and wash before reuse. After contact with skin, wash immediately with plenty of soap and water.

#### After contact with eyes

In case of eye contact, rinse the eyes with water for a sufficiently long time with open eyelids, then consult an ophthalmologist immediately.

#### After ingestion

Immediately rinse mouth and drink plenty of water. In case of vomiting, be aware of aspiration hazard. Always seek medical advice!

### 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

Symptomatic treatment.

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## 05 Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Adapt extinguishing measures to the surroundings. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Water spray.

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

Non-flammable. None.

### 5.3. Advice for firefighters

In case of fire: wear self-contained breathing apparatus. No special measures required.

#### Additional instructions:

Suppress gases/vapors/mist with water spray. Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways.

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## 06 Accidental release measures

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

Ensure adequate ventilation. Do not inhale gas/fumes/vapor/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Special slip hazard due to leaking/spilled product.

### 6.2. Environmental precautions

Do not empty into drains or bodies of water.

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders). Treat the material in accordance with the section on disposal. Prevent area expansion (e.g. by diking or oil booms). Retain contaminated wash water and dispose of it.

### 6.4. Reference to other sections

Safe handling: see section 8 Personal protective equipment; see section 9 Disposal; see Section 13

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## 07 Handling and storage

### 7.1. Precautions for safe handling

Contain leaks and spills in cabinets with mobile drip pans.

#### Notes on fire and explosion protection

Not applicable

#### Further handling information

Do not allow product to dry out.

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

#### Requirements for storage rooms and containers

Keep container tightly closed. Take care when re-opening opened containers.

#### Combined storage instructions

Not applicable

#### Further information on storage conditions

Not applicable

**7.3. Specific end use(s)**  
Commercial cleaner for industrial use

## 08 Exposure controls / personal protection

### 8.1. Control parameters

#### Occupational exposure limits (TRGS 900)

CAS no.	Chemical characterization	ppm	mg/m <sup>3</sup>	F/m <sup>3</sup>	Peak limit	Type
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67	67	1,5(l)	

#### DNEL/DMEL values

CAS no.	Characterization	Exposure route	Effect	Value
10213-79-3	Sodium Metasilicate Pentahydrate			
	Consumers DNEL, long-term	oral	systemic	0,74 mg/kg KG/d
	Workers DNEL, long-term	inhalation	systemic	6,22 mg/m <sup>3</sup>
	Consumers DNEL, long-term	inhalation	systemic	1,55 mg/m <sup>3</sup>
	Workers DNEL, long-term	dermal	systemic	1,49 mg/kg KG/d
	Consumers DNEL, long-term	dermal	systemic	0,74 mg/kg KG/d

#### DNEL/DMEL values

CAS no.	Characterization	Value
10213-79-3	Sodium Metasilicate Pentahydrate	
	Environmental compartment	
	Fresh water	7,5 mg/l
	Seawater	1 mg/l
	Microorganisms in sewage treatment plants	1000 mg/l

### 8.2. Exposure controls

#### Protective and hygienic measures

Immediately remove contaminated, soaked clothing. Prepare and observe skin protection plan! Before wash hands and face thoroughly before breaks and at the end of work, shower if necessary. Do not eat or drink while working.

#### Eye/face protection

Suitable eye protection: safety goggles.

**Hand protection**

When handling chemical agents, only chemical protective gloves with a CE mark including a four-digit test number may be worn. Chemical protective gloves are selected according to the concentration and quantity of the hazardous substance specific to the workplace. It is recommended to check the chemical resistance of the above mentioned protective gloves for special applications with the glove manufacturer.

**Body protection**

Wear suitable protective clothing when working.

**Respiratory protection**

Wear respiratory protection in case of insufficient ventilation.

## 09 Physical and chemical properties

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

State of matter:	liquid
Colour:	yellow
Scent:	neutral
pH value (at 20 °C):	10,9 @ 10 g/L

**Phase transitions**

Melting point:	Not specified
Boiling point and range:	Not specified
Flashpoint:	Non-flammable

**Inflammability**

Solid:	Not applicable
Gas:	Not applicable

**Explosion risk**

No test required, since the concentration of the flammable gas in a mixture with inert gas is so low that it always remains below the limit value when mixed with air.

Lower explosion limit:	Not specified
Upper explosion limit:	Not specified

**Auto-ignition temperature**

Solid:	Not applicable
Gas:	Not applicable
Decomposition temperature:	Not specified

**Fire-promoting properties**

Not fire-promoting.

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Vapor pressure:	Not specified
Density (at 20 °C):	1,084 g/cm <sup>3</sup>
Water solubility:	Easily soluble

**Solubility in other dissolvents**

Not specified

Partition coefficient:	Not specified
Dyn. viscosity (at 20 °C):	12,4 mPa·s

Vapor density:	Not specified
Evaporation rate:	Not specified

**9.2. Other information**

Solids content:	Not specified
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## 10 Stability and reactivity

**10.1. Reactivity**

None known

**10.2. Chemical stability**

The product is stable when stored at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reactions will occur if handled and stored as directed.

**10.4. Conditions to avoid**

None known

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**CO<sub>2</sub>

## 11 Toxicological information

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

#### Acute toxicity

CAS no.	Chemical characterization				
	Exposure route	Dosage	Species	Source	Method
68154-97-2	Alcohols, C10-12, ethoxylated, propoxylated				
	oral	LD50 > 2000 mg/kg	Rats	OECD 401	
112-34-5	2-(2-Butoxyethoxy)ethanol; Diethylene glycol monobutyl ether; Butyl diglycol				
	oral	LD50 5660 mg/kg	Rats		
	dermal	LD50 4120 mg/kg	Rabbits		
10213-79-3	Sodium Metasilicate Pentahydrate				
	oral	LD50 1400 mg/kg	Rats		

#### Other information about tests

The mixture is classified as hazardous according to Directive 1999/45/EC.

## 12 Ecological information

### 12.1. Toxicity

The product can be converted in low concentrations by various microorganisms to:

CAS no.	Chemical characterization					
	Aquatic toxicity	Dosage	[h]   [d]	Species	Source	Method
68154-97-2	Alcohols, C10-12, ethoxylated, propoxylated					
	Acute algae toxicity	ErC50 >1-10 mg/l	72 h	Desmodesmus subspicatus (green algae)	OECD 401	
	Acute crustacean toxicity	EC50 >1-10 mg/l	48 h	Daphnia magna (water flea)	OECD 202	
	Acute bacteria toxicity	(>10000 mg/l)	0h	Pseudomonas subspicatus (green algae)	ISO 10712	



CAS no.	Characterization					
	Aquatic toxicity	Dosage	[h]   [d]	Species	Source	Method
112-34-5	2-(2-Butoxyethoxy)ethanol; Diethylene glycol monobutyl ether; Butyl diglycol					
	Acute algae toxicity	ErC50 >100 mg/l		Scenedesmus sp.		
	Acute crustacean toxicity	EC50 >100 mg/l	48 h	Daphnia magna		
10213-79-3	Sodium Metasilicate Pentahydrate					
	Acute fish toxicity	LC50 3185 mg/l	96 h	Zebrafish (Danio rerio)		
	Acute crustacean toxicity	EC50 4857 mg/l	48 h	Daphnia magna (water flea)		

### 12.2. Persistence and degradability

Biodegradable according to the criteria of the German Detergents and Cleaning Agents Act (WRMG).  
> 90 % Biodegradable according to RVO  
Screening test/ Confirmatory test

CAS no.	Characterization			
	Method	Value	d	Source
	Evaluation			
68154-97-2	Alcohols, C10-12, ethoxylated, propoxylated			
		> 70%	28	OECD TG 301 A
	Easily biodegradable			
		> 60%	28	OECD TG 301 B
	Easily biodegradable			

### 12.3. Bioaccumulative potential

Does not cause disturbance of the biological clarification stage after neutralization.

### Partition coefficient n-octanol/water

CAS no.	Characterization	Log Pow
112-34-5	2-(2-Butoxyethoxy)ethanol; Diethyleneglycolmonobutylether; Butyldiglycol	0,56 (25°C)

### 12.4. Mobility in soil

The product was not tested.

### 12.5. Results of PBT and vPvB assessment

The product was not tested.

### 12.6. Other adverse effects

No information available.

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#### **Other instructions**

Do not allow to enter drains or bodies of water. Do not allow to enter subsoil/soil.

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## **13 Disposal considerations**

### **13.1. Waste treatment methods**

#### **Recommendation**

Do not allow to enter drains or bodies of water. Do not allow to enter subsoil/soil. Dispose of in accordance with official local regulations.

#### **Waste code product**

070501 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of pharmaceuticals; aqueous washing liquids and mother liquors; hazardous waste

#### **Disposal of uncleaned packaging and recommended cleaning agents**

Non-contaminated and empty packaging can be recycled. Contaminated packaging must be treated in the same way as the substance. Rinse containers with water and return to the recycling loop.

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## **14 Transport information**

### **14.1. Land transport (ADR/RID)**

#### **Other relevant information on land transport**

Not a hazardous product in the context of these transport regulations.

### **14.2. Inland waterway transport (ADN)**

#### **Other relevant information on inland waterway transport**

Not a hazardous product in the context of these transport regulations.

### **14.3. Maritime transport (IMDG)**

#### **Other relevant information on maritime transport**

Not a hazardous product in the context of these transport regulations.

### **14.4. Aerial transport (ICAO-TI/IATA-DGR)**

#### **Other relevant information on aerial transport**

Not a hazardous product in the context of these transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No information available

**14.7. Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code**

Not applicable

**Other relevant information**

Not a hazardous product in the context of these transport regulations.

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## 15 Regulatory information

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

**EU regulations**

Restrictions on use (REACH, Annex XVII):

Article 55: 2-(2-Butoxyethoxy)ethanol; Diethylene glycol monobutyl ether; Butyldiglycol

Information on the IE Directive 2010/75/EU (VOC): 4,5 % (48,78 g/l)

Information on the VOC Directive 4,5 % (48,78 g/l)

2004/42/EG:

**Other instructions**

Note: 850/2004/EC, 79/117/EEC, 689/2008/EC

Regulation (EG) no. 648/2004 about detergents

**National regulations Germany**

Employment restriction:

Follow employment restrictions for young people (§ 22 JArbSchG).

Water hazard class:

2 - clearly water polluting

Status:

Mixture rule according to VwVwS annex 4, No. 3

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture have not been carried out.

## 16 Other information

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Wording of H and EUH phrases (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes severe eye damage.
H319	Causes severe eye irritation.
H335	May irritate the respiratory tract.

### Other information

The information provided in this safety data sheet is correct to the best of our knowledge at the time of printing. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or undergoes treatment, the information in this safety data sheet cannot be transferred to the new material thus produced, unless explicitly stated otherwise.

*(The data of the hazardous ingredients were taken from the most recent safety data sheet of the supplier.)*