SAFETY DATA SHEET

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

Revision date: 30 Jan 2025
Print date: 30 Jan 2025
Version: 3

DEUREX®
THE WAX COMPANY

BIOMER 129 D

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

1.1. Product identifier

Trade name/designation:

BIOMER 129 D

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

Use of the substance/mixture:

Additive

1.3. Details of the supplier of the safety data sheet

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

DEUREX AG
Dr.-Bergius-Str. 8 – 12
06729 Elsteraue
Germany
Telephone: +49(0)3441 / 8 29 29 29
Telefax: +49(0)3441 / 8 29 29 28
E-mail: info@deurex.com
Website: www.deurex.com

1.4. Emergency telephone number

Common poisons information centre of the Federal States
Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia
D-99089 Erfurt, 24h: +49(0)361-730730

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.

Hazard components for labelling:

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); bronopol; Alkohol C16-C18, ethoxyliert

Hazard statements: none

Supplemental hazard information	
EUH208	Contains Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6]. (3:1). May produce an allergic reaction.

Precautionary statements: none

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

wax Dispersion

Additional information:

Biodegradable.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 68439-49-6 EC No.: 931-932-4	**Alkohol C16-C18, ethoxyliert** Eye Irrit. 2 (H319) Warning **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 5,000 mg/kg	4 – ≤ 6.9 weight-%
CAS No.: 52-51-7 EC No.: 200-143-0 Index No.: 603-085-00-8 REACH No.: 01-2119980938-15	**bronopol** Acute Tox. 4 (H312, H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger M-factor (acute): 10 M-factor (chronic): 1 **Acute Toxicity Estimate** ATE (oral) 193 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 0.12 – < 1.14 mg/L	0 – ≤ 0.01 weight-%
CAS No.: 7631-99-4 EC No.: 231-554-3 REACH No.: 01-2119488221-41	**sodium nitrate** Eye Irrit. 2 (H319), Ox. Sol. 3 (H272) Warning **Acute Toxicity Estimate** ATE (oral) ≥ 1,267 – ≤ 5,200 mg/kg ATE (dermal) > 5,000 mg/kg	0 – ≤ 0.003 weight-%
CAS No.: 55965-84-9 EC No.: 911-418-6 Index No.: 613-167-00-5 REACH No.: 01-2120764691-48	**Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)** Acute Tox. 2 (H330, H310), Acute Tox. 3 (H301), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1C (H314), Skin Sens. 1A (H317) Danger EUH071 M-factor (acute): 100 M-factor (chronic): 100 **Specific concentration limit (SCL)** Skin Corr. 1C; H314: C ≥ 0.6% Skin Irrit. 2; H315: 0.06% ≤ C < 0.6% Eye Dam. 1; H318: C ≥ 0.6% Eye Irrit. 2; H319: 0.06% ≤ C < 0.6% Skin Sens. 1A; H317: C ≥ 0.0015% **Acute Toxicity Estimate** ATE (oral) 200 mg/kg ATE (dermal) > 1,008 mg/kg ATE (inhalation, dust/mist) 0.171 mg/L	0 – ≤ 0.00115 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:
Provide fresh air.

Following ingestion:
Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
No known symptoms to date.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
No data available

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Avoid breathing dust/fume/gas/mist/vapours/spray. Remove persons to safety.
Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders
Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections
Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information
Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advices on safe handling:
Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene
When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)
No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls
No data available

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection EN 166

Skin protection:
Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

8.2.3. Environmental exposure controls
No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Form: Dispersion
Colour: whitish
Odour: not determined
flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*No data available*	
Melting point	*No data available*	
Freezing point	0 °C	
Initial boiling point and boiling range	*No data available*	
Flash point	*No data available*	
Evaporation rate	*No data available*	
Auto-ignition temperature	*No data available*	
Upper/lower flammability or explosive limits	*No data available*	
Vapour pressure	*No data available*	
Vapour density	*No data available*	
Density	< 1 g/cm³	
Bulk density	*not applicable*	
Water solubility	*No data available*	
Dynamic viscosity	*No data available*	
Kinematic viscosity	*No data available*	
Solid content	49 – 51 weight-%	

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
No data available

10.6. Hazardous decomposition products
No data available

SECTION 11: Toxicological information

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

Alkohol C16-C18, ethoxyliert CAS No.: 68439-49-6 EC No.: 931-932-4
LD_{50} oral: >2,000 mg/kg (rat)
LD_{50} dermal: >5,000 mg/kg (Rat)
bronopol CAS No.: 52-51-7 EC No.: 200-143-0
LD_{50} oral: 193 mg/kg (rat)
LD_{50} dermal: >2,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal Toxicity)
LC_{50} Acute inhalation toxicity (dust/mist): >0.12 – <1.14 mg/L 4 h (rat)
sodium nitrate CAS No.: 7631-99-4 EC No.: 231-554-3
LD_{50} oral: ≥1,267 – ≤5,200 mg/kg (rat) OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD_{50} dermal: >5,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal Toxicity)
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6
LD_{50} oral: 200 mg/kg (rat) OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD_{50} dermal: >1,008 mg/kg (rat)
LC_{50} Acute inhalation toxicity (dust/mist): 0.171 mg/L 4 h (rat) OECD Guideline 403 (Acute Inhalation Toxicity)

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Contains Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6]. (3:1). May produce an allergic reaction.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Additional information:
No data available

11.2. Information on other hazards
No data available

SECTION 12: Ecological information

12.1. Toxicity

Alkohol C16-C18, ethoxyliert CAS No.: 68439-49-6 EC No.: 931-932-4
LC_{50}: 1 – 10 mg/L 4 d (fish, Leuciscus idus) OECD 203
EC_{50}: >1 – 10 mg/L 2 d (Daphnia magna)
EC_{50}: >10 – 100 mg/L (Algae/water plant)
bronopol CAS No.: 52-51-7 EC No.: 200-143-0
LC_{50}: 3 mg/L 4 d (Regenbogenforelle) OECD 203
LC_{50}: 11 mg/L 4 d (fish, Lepomis macrochirus) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 0.068 mg/L 3 d OECD 201
EC_{50}: 0.026 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: 1.4 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 0.0025 mg/L 3 d OECD 201
NOEC: 0.052 mg/L 3 d (Algae/water plant, Skeletonema costatum) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: >20 mg/L 4 d (fish, Lepomis macrochirus) EPA OPP 72-1 (Fish Acute Toxicity Test)
NOEC: 2.61 mg/L 28 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 215 (Fish, Juvenile Growth Test)
NOEC: 0.27 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
LOEC: 0.88 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)
sodium nitrate CAS No.: 7631-99-4 EC No.: 231-554-3
EC_{50}: >1,700 mg/L 10 d (Algae/water plant, several benthic diatoms; see results)

Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6
LC_{50}: 0.0052 mg/L 4 d (Onchorhyncus mykiss) OECD 203
LC_{50}: 0.19 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) EPA OPP 72-1 (Fish Acute Toxicity Test)
LC_{50}: 0.18 mg/L 2 d (crustaceans, Daphnia magna) EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)
LC_{50}: 0.282 mg/L 4 d (crustaceans, Americamysis bahia (previous name: Mysidopsis bahia)) EPA OPPTS 850.1035 (Mysid Acute Toxicity Test)
EC_{50}: 0.048 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
EC_{50}: 0.0181 mg/L 2 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
EC_{50}: 0.0063 mg/L 3 d (Algae/water plant, Skeletonema costatum)
EC_{50}: 0.0357 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
EC_{50}: 0.099 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 0.00064 mg/L 21 d (crustaceans) OECD 211
NOEC: 0.00049 mg/L 2 d (Algae/water plant, Skeletonema costatum)
NOEC: 0.0014 mg/L 3 d (Algae/water plant, Skeletonema costatum)
NOEC: 0.13 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) EPA OPP 72-1 (Fish Acute Toxicity Test)
NOEC: 0.098 mg/L 28 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 215 (Fish, Juvenile Growth Test)
NOEC: 0.1 mg/L 21 d (crustaceans, Daphnia magna) EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies)
LOEC: 0.144 mg/L 28 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 215 (Fish, Juvenile Growth Test)

12.2. Persistence and degradability

water CAS No.: 7732-18-5 EC No.: 231-791-2
Biodegradation: Yes, rapidly
bronopol CAS No.: 52-51-7 EC No.: 200-143-0
Biodegradation: Yes, rapidly
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6
Biodegradation: Yes, rapidly

Biodegradation:
Biodegradable.

12.3. Bioaccumulative potential

bronopol CAS No.: 52-51-7 EC No.: 200-143-0
Log K_{OW}: 107
Bioconcentration factor (BCF): 3.16
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6
Log K_{OW}: 117
Bioconcentration factor (BCF): 3.16

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

Alkohol C16-C18, ethoxyliert CAS No.: 68439-49-6 EC No.: 931-932-4
Results of PBT and vPvB assessment: —

water CAS No.: 7732-18-5 EC No.: 231-791-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
bronopol CAS No.: 52-51-7 EC No.: 200-143-0
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
sodium nitrate CAS No.: 7631-99-4 EC No.: 231-554-3
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

Waste treatment options

Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
No data available

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:

2 - obviously hazardous to water

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

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
UN	United Nations

16.3. Key literature references and sources for data

Substance name	Type	source of supply
bronopol CAS No.: 52-51-7 EC No.: 200-143-0	LD_{50} oral; LD_{50} dermal; LC_{50} Acute inhalation toxicity (dust/mist); LC_{50}; EC_{50}; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
sodium nitrate CAS No.: 7631-99-4 EC No.: 231-554-3	LD_{50} oral; LD_{50} dermal; EC_{50}	Source: European Chemicals Agency, http://echa.europa.eu/
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) CAS No.: 55965-84-9 EC No.: 911-418-6	LD_{50} oral; LD_{50} dermal; LC_{50} Acute inhalation toxicity (dust/mist); LC_{50}; EC_{50}; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method 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. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH071	Corrosive to the respiratory tract.

16.6. Training advice

No data available

16.7. Additional information

No data available