

# Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 08.06.2023

Product: **Phytofirm® Biotic BC10138**

Version: 2.0

(ID no. 30757099/SDS\_COS\_00/EN)

Date of print 25.12.2024

## 1. Identification

### Product identifier

## Phytofirm® Biotic BC10138

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

Relevant identified uses: cosmetic ingredient

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

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

Telephone: +49 211 7940-2222

E-mail address: emc-ehs-masterdata@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## 2. Hazards Identification

### Classification of the substance or mixture

According to UN GHS criteria

Eye Dam./Irrit. 2A

For the classifications not written out in full in this section the full text can be found in section 16.

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## Label elements

### Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319 Causes serious eye irritation.

Precautionary Statements (Prevention):

P280 Wear eye protection.

P264 Wash contaminated body parts thoroughly after handling.

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.

P337 + P313 If eye irritation persists: Get medical attention.

## Other hazards

### According to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## 3. Composition/Information on Ingredients

### Substances

Not applicable

### Mixtures

#### Chemical nature

Preparation based on: Complex extract of natural origin

#### Hazardous ingredients (GHS)

According to UN GHS criteria

Pentane-1,2-diol

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Content (W/W):  $\geq 1\%$  -  $< 3\%$

Eye Dam./Irrit. 1

CAS Number: 5343-92-0

H318

EC-Number: 226-285-3

For the classifications not written out in full in this section the full text can be found in section 16.

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## 4. First-Aid Measures

### Description of first aid measures

Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms: (Further) symptoms and / or effects are not known so far

Hazards: No hazard is expected under intended use and appropriate handling.

### Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

### Special hazards arising from the substance or mixture

Product is not combustible or explosive.

### Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

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

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## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Information regarding personal protective measures, see section 8.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater. Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

For large amounts: Dike spillage. Pick up with suitable appliance and dispose of.

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## 7. Handling and Storage

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

No special precautions necessary.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), glass

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. To be mixed before using. Close containers after use. Protect against heat. Protect from the effects of light.

Storage stability:

Storage temperature: 10 - 30 °C

Avoid freezing.

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## 8. Exposure Controls/Personal Protection

### Exposure controls

#### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

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Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen based on level of activity and exposure.

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	liquid	
Colour:	yellow to amber	
Odour:	product specific	
Odour threshold:		
pH value:	not applicable 5,0 - 7,0 (100 %(m), 20 °C)	(internal method)
melting range:		
Boiling range:	not determined 90 - 110 °C	
Flash point:	> 101 °C	
Evaporation rate:		
Flammability:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability of Aerosol Products:	not flammable not applicable, the product does not form flammable aerosoles	
Lower explosion limit:		
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	For liquids not relevant for classification and labelling.	
Vapour pressure:	not determined	
Density:	not determined approx. 1 g/cm <sup>3</sup> (20 °C)	(internal method)

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Relative vapour density (air): not applicable  
Solubility in water: soluble (20 °C) (internal method)  
Partitioning coefficient n-octanol/water (log Kow): not determined  
Self ignition: not self-igniting  
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.  
Viscosity, dynamic: not determined  
Viscosity, kinematic: not determined  
Explosion hazard: not explosive  
Fire promoting properties: not fire-propagating

### Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section., No further information available.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Chemical stability

The product is chemically stable.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

No special precautions other than good housekeeping of chemicals.

### Incompatible materials

Substances to avoid:  
metal alloys

### Hazardous decomposition products

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Information on toxicological effects

Acute toxicity

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Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Pentane-1,2-diol*

*Experimental/calculated data:*

*LD50 rat (oral): > 5.000 mg/kg (OECD Guideline 401)*  
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#### Irritation

Assessment of irritating effects:

Not irritating to the skin. Causes serious eye irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Pentane-1,2-diol*

*Experimental/calculated data:*

*Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)*  
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*Information on: Pentane-1,2-diol*

*Experimental/calculated data:*

*Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)*  
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#### Respiratory/Skin sensitization

Assessment of sensitization:

Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

*Information on: Pentane-1,2-diol*

*Experimental/calculated data:*

*Maurer optimisation test guinea pig: Non-sensitizing. (OECD Guideline 406)*  
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#### Germ cell mutagenicity

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

#### Carcinogenicity

Assessment of carcinogenicity:

Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect.

#### Developmental toxicity

Assessment of teratogenicity:

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The chemical structure does not suggest a specific alert for such an effect.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

None known

#### Other relevant toxicity information

No data available.

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## 12. Ecological Information

### Toxicity

Assessment of aquatic toxicity:

At the present state of knowledge, no negative ecological effects are expected. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Pentane-1,2-diol*

*Toxicity to fish:*

*LC50 (96 h) > 1.000 mg/l, Brachydanio rerio (OECD Guideline 203, static)*

*The details of the toxic effect relate to the nominal concentration.*

*LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, semistatic)*

*The details of the toxic effect relate to the nominal concentration.*

*Information on: Pentane-1,2-diol*

*Aquatic invertebrates:*

*EC50 (48 h) > 500 mg/l, Daphnia magna (Directive 79/831/EEC, static)*

*The details of the toxic effect relate to the nominal concentration.*

*Information on: Pentane-1,2-diol*

*Aquatic plants:*

*EC50 (72 h) 9.335 mg/l (growth rate), Scenedesmus subspicatus (DIN 38412 Part 9, static)*

*The details of the toxic effect relate to the nominal concentration.*

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Product is expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Pentane-1,2-diol*

*Elimination information:*

*73 % DOC reduction (28 d) (OECD 301E; 84/449/EEC, C.3)*

### Bioaccumulative potential

Assessment bioaccumulation potential:

Study not necessary due to exposure considerations.



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### **Mobility in soil**

Assessment transport between environmental compartments:

Adsorption in soil: Study not necessary due to exposure considerations.

### **Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

### **Other adverse effects**

No data available.

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## **13. Disposal Considerations**

### **Waste treatment methods**

Observe national and local legal requirements.

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## **14. Transport Information**

### **Land transport**

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### **Inland waterway transport**

ADN

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UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

#### Transport in inland waterway vessel

Not evaluated

#### Sea transport

##### IMDG

UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

#### Air transport

##### IATA/ICAO

UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

#### **Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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## 15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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## 16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Eye Dam./Irrit.

Serious eye damage/eye irritation

H318

Causes serious eye damage.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.