

<b>A COMPANY FOR RESEARCH AND EXPERIMENTAL DEVELOPMENT IN BIOTECHNOLOGY BACILLOMIX CO.DOO VETERNIK, NOVI SAD</b>	<b>SAFETY DATA SHEET</b>	Page	1 /10
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<b>BOTRIX B</b>			

## SECTION 1: Identification of the chemical and data on the entity that places the chemical on the market

### Subsection 1.1 Chemical identification

Product name : BOTRIX B  
 Chemical description : Bacterial inoculum *Bacillus subtilis*. Strains BS 2, BS 10 and BS 20 min. 8x10<sup>10</sup> cfu/ml  
 Water ~ 98%, sucrose ~0,5%.  
 REACH number : Not applicable  
 Chemical formula : Not applicable

### Subsection 1.2 Identified uses of the chemical and uses that are advised against

Identified uses : Microbiological fertilizer.  
 Preporučive upotrebe : Microbiological product that contains plant growth stimulators.  
 General use

### Subsection 1.3 Supplier data

Status : Manufacturer  
 Name : BACILLOMIX CO. DOO  
 Rodina 63, Veternik 21203, Novi Sad, Serbia  
 Mobile phone number: +381/69/2370 444  
 E-mail : natashados76@gmail.com

### Subsection 1.4 Emergency telephone numbers

Name : Military Medical Academy  
 Crnotravska 17, 11000 Beograd  
 + 381/11/3608 440 available 24 hours

## SECTION 2: Identification of hazards

According to the Rulebook on classification, packaging, labeling and advertising of chemicals and certain products in accordance with the Globally Harmonized System for Classification and Labeling of the UN (Official Gazette of RS, 105/13 and 52/17)

### Subsection 2.1 Chemical classification

Product definition : Mixture  
 Product classified as : **Not classified as hazardous**  
 See Chapter 16 for the full text of the H marks declared above.  
 See Chapter 11 for more detailed information on health consequences and symptoms.

### Subsection 2.2 Labelling elements

Hazard pictogram : None  
 A word of warning : None  
 Hazard notice : None

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Notice of precautionary measures : P102 Keep out of reach of children

Additional labelling elements : None

### **Subsection 2.3 Other hazards**

Classification criterion as PBT or vPvB : Not applicable.  
Other hazards which do not affect the classification : No available data.

## **SECTION 3: Composition / information on ingredients**

### **Subsection 3.1 Data on substance ingredients**

Substance  
Not applicable

See Chapter 16 for the full text of the H marks declared above.

### **Subsection 3.2 Data on mixture ingredients**

Name of mixture	Composition	CAS number EC number Index number REACH number	Classification according to the Rulebook on Classification, Packaging, Labeling and Advertising of Chemicals and Certain Products in accordance with the Globally Harmonized System for Classification and Labeling of the UN (Official Gazette of RS No. 105/13 and 52/17).
Bacterial inoculum <i>Bacillus subtilis</i> .	min. 6x10 <sup>10</sup> cfu/ml	Not applicable	Not classified

## **SECTION 4: First aid measures**

### **Subsection 4.1 Description of first aid measures**

- in case of inhalation : In case of problems, seek medical help. Provide fresh air.
- in case of skin contact : Wash the skin that has come in contact with the product immediately with soap and water and rinse thoroughly. In case of further skin irritation or allergic reaction, consult a doctor.
- in case of eye contact : Keeping your eyes open, rinse your eyes with running water for 15 minutes. Seek medical attention.

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- in case of swallowing : Seek medical attention immediately. Rinse mouth thoroughly and then drink plenty of water. Do not induce vomiting.

#### **Subsection 4.2 Most important symptoms and effects, both acute and delayed**

: See subsection 2.1 / 2.3 / 11.1

#### **Subsection 4.3 Emergency medical care and special treatment**

: Take first aid measures. In case of more serious symptoms, seek medical advice. After inhaling, as soon as possible spray with corticosteroids.

### **SECTION 5: Firefighting measures**

#### **Subsection 5.1 Extinguishing media**

: Suitable extinguishing media: Foam, carbon dioxide, water spray or mist. Unsuitable extinguishing media: Do not use full water jet.

#### **Subsection 5.2 Special hazards arising from the substance or mixture**

: The product is not flammable.  
Hazardous combustion products: In case of fire, thermal decomposition may produce toxic and / or corrosive gases and vapors.

#### **Subsection 5.3 Advice for firefighters**

: Mandatory use of personal protective equipment. In case of fire and / or explosion do not breathe in gases

### **SECTION 6: Measures in case of accidents**

#### **Subsection 6.1 Personal precautions, protective equipment and traffic accident procedures**

Evacuate personnel to safety zone immediately. Wear personal protective equipment. Provide adequate ventilation.

#### **Subsection 6.2 Environmental precautions**

Prevent product from entering drains. Try to prevent further leakage if it is safe to do so. Inform appropriate institutions if the product has caused environmental pollution (sewage, watercourses, soil or air).

#### **Subsection 6.3 Measures to be taken and material for preventing spread and remediation**

Evacuate area. Provide good ventilation. No smoking and access to open flames in the storage area, Eliminate sources of ignition. In case of leakage, ventilate the area.

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#### **Subsection 6.4 Reference to other sections**

See Section 8 for information on personal protective equipment. See Chapter 13 for additional information on waste treatment.

### **SECTION 7: Handling and storage**

#### **Subsection 7.1 Precautions for safe handling**

Keep away from sources of ignition. Use only protective equipment suitable for this product. Avoid exposure. Follow the instructions before use.

Do not eat, drink or smoke in rooms where this product is handled and stored. See Chapter 8 for additional information on hygiene measures.

#### **Subsection 7.2 Conditions for safe storage, including any incompatibilities**

Store in the original package, protected from direct sunlight, in a dry, cool and well-ventilated place, away from incompatible materials (see Chapter 10), food and drink. Keep out of reach of children and uninformed persons.

#### **Subsection 7.3 Special uses**

None.

### **SECTION 8: Exposure control and personal protection**

#### **Subchapter 8.1 Exposure control parameters**

Exposure limit values

The mixture does not contain substances to which the occupational exposure limit values apply

#### **Subsection 8.2 Exposure controls and personal protection**

Technical control: Provide adequate ventilation.

Individual protection measures: Use the product in accordance with this safety data sheet. Choose personal protective equipment in accordance with recommended standards.

Protect eyes, face and skin from splashes of liquid.

Eye / face protection: Wear safety goggles with side shield.

Standard SRPS EN 166: 2008 - Personal eye - protection - Specifications.

Hand skin protection: Wear work gloves when handling the product.

Standard SRPS EN 374 - Protective gloves.

Body protection: Avoid direct contact - wear protective clothing.

Respiratory protection: Avoid direct contact, otherwise no special protection measures are required.

Thermal hazard protection: Not required.

Environmental exposure control: Carry out environmental exposure controls in accordance with applicable regulations.

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## SECTION 9: Physical and chemical properties

### Subsection 9.1 Information on basic physical and chemical properties of the chemical

Appearance - physical state and color: Light yellow liquid  
 Odor: Odorless  
 Odor threshold: No data available.  
 Chemical pH: 7.0  
 Melting point / Freezing Point: No data available.  
 Boiling point and boiling range: No data available.  
 boiling range  
 Flash point: No data available.  
 Evaporation rate: No data available.  
 Flammability: No data available.  
 Upper / Lower flammability, or explosiveness limit: No data available.  
 Vapor voltage: No data available.  
 Vapor density: No data available.  
 Relative density: No data available.  
 Solubility: No data available.  
 Partition coefficient in n-octanol / water system: No data available.  
 Temperature of self-ignition: No data available.  
 Decomposition temperature: No data available.  
 Viscosity: No data available.  
 Explosive properties: No data available.  
 Oxidizing properties: No data available.

### Subsection 9.2 Other information

Solid residue content	Bacterial inoculum <i>Bacillus subtilis</i> strains BS 2, BS 10 and BS 20 min. 8x10 <sup>10</sup> cfu/ml
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## CHAPTER 10: Stability and reactivity

### Subsection 10.1 Reactivity

There is no danger of reactivity except for the effects described in the subsections below.

### Subsection 10.2 Chemical stability

Stable under normal conditions.

### Subchapter 10.3 Possibility of hazardous reactions

No data available.

### Subchapter 10.4 Conditions to avoid

Keep away from heat / sparks / open flames / hot surfaces. Do not smoke smoke.

### Subchapter 10.5 Incompatible materials

No data available.

Subchapter 10.6 Hazardous decomposition products Under normal conditions of handling and storage, no hazardous decomposition products should be produced.

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## SECTION 11: Toxicological information

### Subsection 11.1 Information on toxic effects

Acute toxicity: No data available.

Corrosive skin damage / irritation: Unclassified (Based on available data classification criteria not met)

Serious eye damage / eye irritation: Unclassified (Based on available data classification criteria not met)

Respiratory or skin sensitization: Unclassified (Based on available data classification criteria not met)

Germ cell mutagenicity: Unclassified (Based on available data classification criteria not met)

Carcinogenicity: Unclassified (Based on available data classification criteria not met)

Reproductive toxicity: Unclassified (Based on available data classification criteria not met)

Specific target organ toxicity - single exposure: No data available.

Specific target organ toxicity - repeated exposure: No known effects

Aspiration hazard: Unclassified (Based on available data classification criteria not met)

Probable routes of exposure: No data available

Symptoms related to physical, chemical and toxicological properties

- Inhalation: No data available.
- In case of ingestion: No data available
- In case of skin contact: No data available.
- In case of eye contact: No data available.

Delayed and immediate effects as well as chronic effects due to short-term and prolonged exposure

- Short term exposure: No data available
- Long term exposure: No data available

Interaction effects: No data available

Absence of some data: All available and relevant data are displayed.

Additional information: All available and relevant data are displayed.

## SECTION 12: Ecotoxicological information

### Subsection 12.1 Toxicity

Estimate: No data available.

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EC50 48h - Daphnia Daphnia magna [mg / l]: No data available.

EC50 72h - Algae [mg / l]: No data available.

LC50 96 h - Fish [mg / l]: No data available.

### **Subsection 12.2 Persistence and degradability**

Estimate: No data available.

### **Subsection 12.3 Bioaccumulative potential**

Assessment: No bioaccumulation is expected due to low log Kow. See Section 9.

### **Subsection 12.4 Mobility in soil**

Estimate: No data available.

### **Subsection 12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

### **Subsection 12.6 Other adverse effects**

Impact on the ozone layer: None

Global warming effect: No known effects

## **SECTION 13: Disposal considerations**

### **Subchapter 13.1 Waste treatment methods**

Product disposal methods: Waste generation should be avoided or minimized wherever possible. Unspent quantities of products should be handled in accordance with the Law on Waste Management.

Packaging-disposal methods: Handle packaging in accordance with the Law on Packaging and Packaging Waste.

Local legislation: Law on Waste Management, Ordinance on Types of Waste, Ordinance on Packaging Waste Management.

## **SECTION 14: Transport information**

### **Subsection 14.1 UN number**

UN number: Not applicable

Labeling ADR, IMDG, IATA Not applicable

### **Subsection 14.2 UN name for cargo in transport**

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Road (ADR) / Rail (RID) traffic: Not applicable  
International air transport (ICAO-TI / IATA-DGR): Not applicable  
International Maritime Transport (IMDG): Not applicable

#### **Subsection 14.3 Transport hazard class**

Road (ADR) / Railway (RID) traffic  
Class: Not applicable  
Classification code: Not applicable  
H.I. nr: Not applicable  
Tunnel restriction code: Not applicable  
International air transport (ICAO-TI / IATA-DGR)  
Class / Division (Subsidiary risk): Not applicable  
International Maritime Transport (IMDG)  
Class / Division (Subsidiary risk): Not applicable  
Emergency Directives (EMS) - Fire: Not applicable  
Emergency Directives (EMS) - Spills: Not applicable

#### **Subsection 14.4 Packaging group**

Road (ADR) / Rail (RID) traffic: Not applicable.  
International air transport (ICAO-TI / IATA-DGR): Not applicable.  
International Maritime Transport (IMDG): Not applicable.

#### **Subsection 14.5 Environmental hazards**

Road (ADR) / Rail (RID) traffic: Not applicable  
International air transport (ICAO-TI / IATA-DGR): Not applicable  
International Maritime Transport (IMDG): Not applicable

#### **Subsection 14.6 Special precautions for user**

Packaging instructions  
Road (ADR) / Rail (RID) traffic: Not applicable  
International air transport (ICAO-TI / IATA-DGR) Not applicable  
Passenger and cargo aircraft: Not applicable  
Cargo plane only: Not applicable  
International Maritime Transport (IMDG): Not applicable  
Special precautions for user: Not applicable

#### **Subsection 14.7 Transport in bulk**

According to Annex II MARPOL 73/78 and IBC Code: Not applicable

### **SECTION 15: Regulatory information and regulations**

#### **Subsection 15.1 Safety, health and environmental regulations**

This safety data sheet has been prepared in accordance with:

- Law on Chemicals (Official Gazette of RS No. 36/09, 88/10, 92/11, 93/12 and 25/15)



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- Rulebook on classification, packaging, labeling and advertising of chemicals and certain products in accordance with the Globally Harmonized System for Classification and Labeling of the UN, (Official Gazette of RS No. 105/13 and 52/17)
- Rulebook on the content of the safety data sheet (Official Gazette of RS No. 100/11)
- Rulebook on detergents (Official Gazette of RS No. 25/15)
- Rulebook on the list of classified substances (Official Gazette of RS No. 50/17)
- Law on Waste Management (Official Gazette of RS, No. 36/09, 88/10 and 14/16)
- Law on Packaging and Packaging Waste (Official Gazette of RS No. 36/09).

### **Subsection 15.2 Chemical Safety Assessment**

Chemical safety assessment not performed.

## SECTION 16: Other information

Labelling - an overview of the labels in Sections 2 and 3

Number / Date of issue: : 22.07.2020.  
Modification from the : Not applicable  
previous edition  
Prepared by : Chemical Advisor  
Basic literature and data : None  
sources:

An overview of the abbreviations and designations listed in this sheet with an explanation of their meaning

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
CAS	Chemical Abstract Service
EINECS	EU Inventory of Existing Commercial Chemical Substances
ELINCS	EU List of Notified Chemical Substances
LC50	Lethal Concentration
LD50	Lethal Dose
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration
RID	International Rule for Transport of Dangerous Substances by Railway
STEL	Short Term Exposure Limit
TWA	Time Weighted Averages

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DNEL	Derived No-Effect Level
NOAEL	No Observed Adverse Effect Level
LOAEL	Lowest Observed Adversed Effect Level
PNEC	Predicted No-Effect Concentration
UN	United Nations
MARPOL 73/78	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 - MARinePOLlution

**Notice to readers** : The information contained herein is based on our current knowledge and legislation. They refer exclusively to the described product and are given as safety instructions and safety requirements related to the mixture, and not as a guarantee of their properties. The mixture must not be used for purposes other than those specified in point 1, without prior written instructions for handling.

The user is responsible for taking all necessary measures in accordance with the regulations.