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| BACILLOMIX CO.DOO A COMPANY FOR RESEARCH AND EXPERIMENTAL DEVELOPMENT IN BIOTECHNOLOGY VETERNIK, NOVI SAD | <h1 style="margin: 0;">SAFETY DATA SHEET</h1> | Page | 1 / 10 |
| | | Version | 1 |
| | | Revision | 2 |
| | | Date | 13.02.2020. |
| <h2 style="margin: 0;">BACILLOMIX SEMENNOPS</h2> | | | |

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 : Bacillomix semennops
 Chemical description : Bacillus sp. 2,3 x 10⁹ cfu/ml
 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 containing plant growth stimulating microorganisms, as well as stimulators of microbiological origin.
 Recommended uses : Microbiological fertilizer Bacillomix semennops can be applied on all types of land, for all agricultural crops and flowers, in conventional and organic agricultural production.
 Non-recommended uses : No available data.

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 : EUH401 Follow the instructions for use to avoid risks to human health and the environment.

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Notice of precautionary measures : P102 Keep out of reach of children
 : P280 Wear protective gloves / protective clothing / eye protection / face protection.
 : P301+P312 IF SWALLOWED: Call CENTER FOR POISON CONTROL / doctor if you feel unwell.
 : P302+P352 IF ON SKIN: Rinse with plenty of water.
 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 sp.</i> | min 2,3x10 ⁹ 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

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- in case of eye contact : further skin irritation or allergic reaction, consult a doctor. Keeping your eyes open, rinse your eyes with running water for 15 minutes. Seek medical attention.
- 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.

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: apron resistant to chemicals SRPS EN 14605; footwear: boots SRPS EN 13832-1, EN

13832-2, EN 13832-3

Respiratory protection: Do not breathe the product. Use suitable protective mask with

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adequate respiratory filter (standard SRPS EN 143) or use adequate ventilation

Thermal hazard protection: Not required.

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

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

Quantity to apply

Treatment of seeds and planting material with 3.0% solution of the preparation.

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.

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Subchapter 10.4 Conditions to avoid

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

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.

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SECTION 12: Ecotoxicological information

Subsection 12.1 Toxicity

Estimate: No data available.

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.

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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

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

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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)
- 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

P102 Keep out of reach of children

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Number / Date of issue: 1 / 13.02.2020.

Revision number / date: 1 / 13.02.2020.

Modification from the previous edition: Not applicable

Prepared by: Chemical Advisor

Basic literature and data sources: None

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 Water

ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road

ATE Assessment of acute toxicity

BCF Bioaccumulation factor

CAS Number of chemical compounds and some mixtures

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DGR Regulations for hazardous substances, regulatory framework for the transport of hazardous substances in air transport

EU European Union

EC Identification number assigned to each substance entered in the European Inventory of Existing Chemical Substances. This number is the official identifier of the substance in the European Union.

ISO The International Organization for Standardization

GHS Globally-harmonized system of classification and labeling of chemicals

LC50 Lethal concentration, the concentration of a chemical that kills 50% of the tested population

LD50 Lethal dose, the concentration of a chemical that kills 50% of the tested population

EC50 Chemical concentration at which 50% of the population responds, after a certain length of exposure

DNEL Derived dose without effect.

PNEC Concentration predicted to have no effect on the environment

NOAEL The highest dose at which no harmful effects on health occur

NOAEC The highest concentration at which no harmful effects on health occur

IATA International Air Transport Association

IARC International Cancer Research Agency

IMDG Hazardous substances for international maritime traffic

REACH EU regulation adopted in order to protect human health and the environment from hazardous chemicals

RID International norm for railway transport of dangerous substances

TWA Average concentration of samples per unit time

UN United Nations

VOC Content of volatile organic compounds

BMGV Biological monitoring

OECD Organization for Economic Cooperation and Development

MDK Maximum permissible concentrations of chemical hazards in the air of the working environment

STOT Specific target organ toxicity

STEL Short-term exposure limit, 15 min

SRPS Label for standards and related documents issued by the Institute for Standardization of Serbia

PBT Persistent, bioaccumulative and toxic

vPvB Very persistent, very bioaccumulative

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.