SAFETY DATA SHEET

Section 1: Identification

Product Name: BIF-BEAUB-21-02¹¹

Chemical Name/Synonyms: BIF-BEAUB-21-02¹¹

Company: Bioefekts, 30 Livzemes str., Salaspils, LV-2169, Latvia

In emergency call your local emergency number.

For information about this SDS, use this contact phone#: +371 27774433

Section 2: Hazard(s) Identification

Emergency Overview: No known health hazards

Hazard Classification: None

Signal Word(s): Warning **Hazard Statements:**

Pictograms:



Precautionary Statements:

Description of other hazards: Contains naturally occurring, non-pathogenic microorganisms in liquid formulation. This product should pose no health concerns through normal use in accordance with label directions. Not for food, feed or drug use.

Section 3: Composition/Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Bacillus subtilis	-	68038-70-0	3%
Bacillus amyloliquefaciens	-	68038-60-8	3%

Section 4: First-Aid Measures

After skin contact: Wash with plenty of water

After eye contact: Flush with water for several minutes

After inhalation: n/a (non-volatile liquid) **After swallowing**: Rinse mouth with water

<u>Information for healthcare professionals</u>: Product is based on a nonhazardous naturally occurring bacteria plus food grade materials and nutrients.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Water, powder, CO₂ gas and foam

Special protective equipment for firefighters: None

In case of fire evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and full protective equipment.

Section 6: Accidental Release Measures

Personal precautions: None

Measures for environmental protection: May be disposed of in the compost.

Measures for cleaning/collecting: In case of spillage on the floor, clean the area with water. Place in

a container compatible with the product. Dispose in appropriate place.

Section 7: Handling and Storage

Handling: No special handling requirements. Follow normal hygienic and housekeeping standards for agricultural products. Incompatible with strong oxidizing agents, solvents, and strongly acidic and alkaline products.

Storage: in a dry, well ventilated room at temperatures between +7°C and -1°C. Keep away from children.

Section 8: Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Bacillus spp.	not established	not established	not established	not established

General protective and hygienic measures: Wash hands thoroughly with soap and water after

handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Breathing equipment: n/a (nonvolatile liquid) **Protection of hands:** Wear protective gloves **Eye protection:** Recommended as good practice.

Section 9: Physical and Chemical Properties

Form: Off-white liquid Odor: Slightly milky Odor threshold: n/a

pH: 7-9

Melting point/melting range: Not determined **Boiling point/boiling range:** Not determined

Flash point: Not determined

Contact information: +371 27774433; info@bioefekts.lv, www.bioefekts.lv

Evaporation rate: Not determined Flammability: Not flammable

Upper/lower flammability or explosive limits: Not flammable

Auto ignition temperature: Not determined

Danger of explosion: Not flammable Vapor pressure: Not determined Vapor density: Not determined Relative density: Not determined

Solubility in/Miscibility with water: Highly soluble

Section 10: Stability and Reactivity

Reactivity: Stable under normal recommended storage and handling conditions.

Chemical stability: Stable under normal recommended storage and handling conditions. Avoid

temperatures above +40°C to retain the activity of the product.

Conditions to avoid: Suboptimal storage temperatures

Incompatible materials: Incompatible with strong oxidizing agents, solvents, and strongly acidic and

alkaline products.

Hazardous decomposition products: Thermal decomposition will produce oxides of carbon.

Section 11: Toxicological Information

Active ingredient is non-toxic, non-allergenic and non-pathogenic to mammals. Pre-existing medical conditions should not be aggravated by exposure. Acute mammalian toxicology data support the lack of toxicity/pathogenicity. Besides its low dietary toxicity, potential residues of the product can be removed from food commodities by washing, peeling, cooking and processing, to lower dietary exposure and risk.

Acute toxicity: Oral LD50 (rat): >2000 mg/kg bw

Potential routes of exposure/potential health effects

Skin: LD50 (rat): >2000 mg/kg bw

Eye: Mild irritant

Inhalation: n/a (nonvolatile liquid)

Ingestion: Nontoxic

Carcinogenic effects: Not classified

(Based on available data, the classification criteria are not met)

Mutagenic effects: Not classified

(Based on available data, the classification criteria are not met)

Reproductive toxicity: Not classified

(Based on available data, the classification criteria are not met)

Sensitization: Very mild delayed hypersensitivity to susceptible individuals

Target organs: Not classified

(Based on available data, the classification criteria are not met)

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: None known

Birds: Bobwhite quail LD50>2000 mg/kg bw; >5000 mg/kg bw

Mallard duck LD50>2000 mg/kg bw

Mobility: Data not available

Biodegradation: Degraded by soil bacteria **Bioaccumulation:** Not likely to accumulate

Repeated exposure in a closed ecosystem did not show any effect on behavior, visual changes and

reproduction abilities for rainbow trout, Daphnia magna and benthos.

Section 13: Disposal Considerations (non-mandatory)

Non-hazardous. Dispose according to applicable national, regional and local laws and regulations. May be disposed of in the compost.

Section 14: Transport Information (non-mandatory)

DOT regulations: Land, air and sea

Hazard class: No

Land transport ADR/RID (cross-border): Not classified as dangerous good under transport

regulations

ADR/RID class: Not classified as dangerous good under transport regulations

Maritime transport IMDG: Not classified as dangerous good under transport regulations

Air transport ICAO-TI and IATA-DGR: Not classified as dangerous good under transport regulations

ICAO/IATA Class: No

Section 15: Regulatory Information (non-mandatory)

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

S-phrases: S2 Keep away from children

S47/49 Store in original package in temperature below +40°C

Section 16: Other Information

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the manufacturer's knowledge and belief, accurate and reliable as of the date of the preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the manufacturer shall not be liable for any loss or damage arising out of the use thereof. In addition, the manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or rom any hazards inherent in the nature of the product.

NOTICE: How this product is used is very important and beyond the control of the seller. The buyer assumes all risks for any use beyond those described on the label or for any use under abnormal conditions.

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Prepared by Simona Larsson, PhD.