



SAFETY DATA SHEET (SDS)

BIOLOGIC PRODUCT
www.bioplus.ind.br

BIOL 2000
(Liquid)
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1. PRODUCT / COMPANY IDENTIFICATION

Product: BIOL 2000 (Liquid).

Supplier: Bioplus Desenvolvimento Biotecnológico LTDA.

Address: Rua Cel Rezende, 1800, Bairro Vera Cruz CEP 94.090-600 Gravataí-RS, Brasil;

Phone Number: +55 51 3356-2000.

E-mail: bioplus@bioplus.ind.br

Emergency Phone Number: CIT-RS 0800-721-3000

2. HAZARD IDENTIFICATION

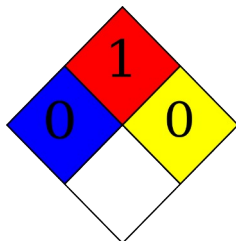
HEALTH HAZARDS: Does not present a risk of acute irritation, but may cause irritation after prolonged and frequent contact with eyes and skin.

CHEMICAL AND PHYSICAL HAZARDS: Stable under normal conditions of use and storage.

SPECIFIC HAZARDS: Non-flammable product.

MAJOR SYMPTOMS: Causes irritation if in direct contact with the eyes.

BIOLOGICAL PRODUCT CLASSIFICATION: Flammable only if exposed to fire.



NFPA Rating (Scale 0 – 4)

Health = 0

Fire = 1

Reactivity = 0

3. COMPOSITION AND INFORMATION ON THE COMPONENTS

Homogeneous liquid product based on a mixture of remediating microorganisms and stabilizer, consisting of environmental microbial cultures.

Registration with the Chemical Abstract Service (CAS No.) Not applicable.

Bacillus sp

Yeast

Inert stabilizing charge

Active ingredient

Active ingredient

Vehicle



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4. FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Seek medical attention.

SKIN: Remove contaminated clothing. Rinse the affected parts with plenty of water. Seek medical attention if any symptoms appear.

INGESTION: Remove the remaining material from the mouth. Do not induce vomiting. Drink 2 glasses of water or milk. Seek medical assistance with the product's safety data sheet.

INHALATION: Neutral product, no risk occurs when inhaled.

5. FIRE FIGHTING MEASURES

EXTINGUISHING AGENT: It is not flammable under normal conditions, and has no risk of explosion. In case of fire use any class of extinguisher, A, B, C, or ABC powder, or water.

SPECIAL PROTECTIVE EQUIPMENT: No special equipment required.

6. CONTROL MEASURES IN CASE OF LEAKAGE OR SPILLAGE PERSONAL PROTECTION

WEAR CONVENTIONAL PPE: goggles, latex gloves and boots.

PRECAUTIONS FOR THE ENVIRONMENT: Special measures are not required.

CLEANING METHODS: In case of an accident with the packages: Isolate the area and collect the product with a shovel. Put it in a bottle and then notify the technical department.

ADDITIONAL INFORMATION: No hazardous substances are released.

7. HANDLING AND STORAGE

SAFE HANDLING: Wear goggles and latex gloves.

EXPLOSION AND FIRE PROTECTION: No special measures are required.

SUITABLE STORAGE CONDITIONS: No special measures are required. Store away from light and heat.

STORAGE INFORMATION WITH OTHER PRODUCTS: No special measures are required.



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8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Control Measures: Not Applicable

Specific Control Parameters: Unknown Occupational exposure limits and/or biological indicators:

Exposure limit: Not required

Recommended procedures for monitoring: Not required

Respiratory protection: Not required

Hand protection: Gloves

Eye protection: Safety goggles

Skin and body protection: Lightweight protective clothing

Special precautions: Not required

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- **Physical state:** Liquid and homogeneous formulation.
- **Color:** Different colors, according to the microorganism.
- **Odour:** characteristic
- **Melting point:** Not applicable
- **Boiling point:** 100 °C ◦ **Flash point:** Not applicable
- **Evaporation rate:** Not applicable
- **Flammability:** Not explosive
- **Lower/upper flammability or explosiveness limit:** Not applicable
- **Vapor pressure:** Not applicable
- **Vapor density:** Not applicable
- **Density:** Not applicable
- **Solubility:** Not applicable
- **Partition coefficient – n-octanol/water:** Not available
- **Auto-ignition temperature:** Not applicable
- **Operating temperature:** between 15°C and 40°C;
- **Acting pH:** 6.0-8.5
- **Battery:** Not applicable

10. REACTIVITY AND STABILITY

CHEMICAL STABILITY: Stable at room temperature, the product does not decompose into hazardous by-products.

DANGEROUS REACTIONS: There are no known dangerous reactions.

CONDITION TO AVOID: Avoid exposing the product to high temperatures and humidity.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not applicable

Primary irritation effects: Not applicable

Skin: No irritating effect.

Eyes: Irritation may occur if product comes into contact with the eyes.

Sensitization: Sensitization effects are not known.

Other toxicology data: When used and handled according to specifications, the product does not present a hazard.

Toxicity: Low toxicity. Irritation may occur if the product is exposed to the skin over the long term.

12. ECOTOXICOLOGICAL INFORMATION

100% biodegradable product, non-bioaccumulative. Adverse effects not known.

13. TREATMENT AND DISPOSAL

The Product may be disposed of with household waste.

Dirty packaging can be disposed of with household waste, and can be recycled.

Do not reuse the packaging except for recycling.

14. TRANSPORT INFORMATION

National and international regulations: Product not classified by the Dangerous Goods Transport Legislation.

15. REGULATIONS

Not Applicable.

16. OTHER INFORMATION

The data and information transcribed herein are merely complementary, provided in good faith, and represent the best that has been known to date on the subject, but this does not mean that they do not completely exhaust the subject. No guarantee is given about the result of the application of this data and information, not exempting users from their responsibilities at any stage of handling the product. The provisions of existing government regulations prevail over the data contained.

Technical Department

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