In compliance with OSHA HCS 29 CFR 1910.1200

SAFETY DATA SHEET

Product: BIOMARKS

Revision: 01	Date: 06/29/2026	Pages: 1/8

1 - IDENTIFICATION

Product identifier:	BIOMARKS
Other means of identification:	BIOMARKS
Recommended use of the chemical and restrictions on use:	Fertilizer.
Manufacturer's name:	BIOTROP LLC
Address:	747 SW 2nd Avenue Suite 395 Gainesville, FL 32601, - United States.
Telephone number:	+1 (352) 574-3424
Emergency phone number:	+1 (352) 574-3424

2 - HAZARD IDENTIFICATION

Classification of the chemical:	Serious eye damage/eye irritation - Category 2A.
Classification system adopted:	OSHA HCS 29 CFR 1910.1200 Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.
Pictograms:	
Signal word:	WARNING
Hazard statement(s):	Causes serious eye irritation.
Precautionary statement(s):	**PREVENTION:** Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection and hearing protection. **RESPONSE TO EMERGENCY:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Other hazards which do not result in classification:	The product has no other hazards.
Any hazards not otherwise classified that have been identified during the classification process:	Hazardous to the Aquatic Environment - Acute Hazard - Category 3. Hazardous to the Aquatic Environment - Chronic Hazard - Category 3.

SAFETY DATA SHEET

Product: BIOMARKS

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE BIOMARKS

Components contributing to the hazard:

Product identifier	CAS/EC	Concentration range (%)
Zinc sulfate hidrate	7446-19-7 231-793-3	0 - 2.19

4 - FIRST-AID MEASURES

Description of necessary measures

Inhalation:	Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin contact:	Wash exposed skin with sufficient amount of water to remove the material. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.
Eye contact:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.
Ingestion:	Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms/effects, acute and delayed:	Causes serious eye irritation with redness and pain.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the material when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:	Suitable: carbon dioxide (CO_2), alcohol-resistant foam, water mist and powder. Unsuitable: water jet directly.
Specific hazards arising from the chemical:	Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Vapors can be denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. Containers may explode if heated.
Special protective actions for fire-fighters:	Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	**For non-emergency personnel:** Isolate the leak from ignition sources. Keep unauthorized personnel away from the area. Stop the leak if it can be done without risk. Do not smoke. Do not touch damaged containers or spilled product without wearing appropriate clothing. Avoid exposure to the product and contact with skin, eyes, and mucous membranes. Use personal protective equipment as described in section 8. **For emergency responders:** Wear full PPE including safety glasses, safety gloves, appropriate protective clothing, and closed-toe shoes. In the event of a spill, where exposure is high, an appropriate respiratory protection mask is recommended. **Emergency procedures:** Prevent spilled product from reaching watercourses and sewage systems.
Methods and materials for containment and	Paved floor: Use water mist or vapor-suppressing foam to reduce vapor dispersion. Use natural barriers or spill containment systems. Collect the spilled product and place it in appropriate

cleaning up:	containers. Absorb the remaining product with dry sand, earth, vermiculite, or any other inert material. Place the adsorbed product in appropriate containers and remove them to a safe location. Soil: Remove layers of contaminated soil until reaching uncontaminated soil, collect this product, and place it in a sealed and properly labeled container. Water bodies: Immediately stop abstraction for human or animal consumption. If necessary, contact the nearest environmental agency and/or the company's emergency center. For final disposal, proceed according to Section 13 of this document.

7 - HANDLING AND STORAGE

Precautions for safe handling:	Handle in a ventilated area or with a general ventilation/local exhaust system. Avoid the formation of vapors and mists. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials. Wash hands and face thoroughly after handling and before eating, drinking, smoking or using the toilet. Do not eat, drink or smoke during handling of the product. Remove contaminated clothing and protective equipment before entering food areas. Wash contaminated clothing and protective items before reuse and separately from household clothing. The product is not expected to present a fire or explosion hazard.
Conditions for safe storage, including any incompatibilities:	Store in a dry, covered, well-ventilated place away from sunlight. Store the product in its original packaging, always closed. Avoid storing the product near sources of ignition and heat. Keep in a place suitable for the type of product. Avoid access by unauthorized persons to the area. Protect the packaging against physical damage. Store at 15 to 25 °C (59 to 77 °F). It is not necessary addition of stabilizers and antioxidants to ensure the durability. Packaging compatibilities: Similar to the original packaging. Keep away from incompatible materials.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit:	The values below apply to workplaces. - Calcium sulfate: Cal/OSHA - PEL - TWA: 10 mg/m³ (TD); 5 mg/m³ (R); ACGIH - TLV - TWA: 10 mg/m³ (I); - Disodium molybdate: Cal/OSHA - PEL - TWA: 0.5 mg/m³; ACGIH - TLV - TWA: 0.5 mg/m³ (R). TD: Total dust; I: Inhalable particulate matter; R: Respirable particulate matter.
Biological limit:	No biological indicators of exposure are established.
Other limits and values:	- Calcium sulfate: Lime/OSHA PEL-TWA: 10 mg/m³ (total dust), 5 mg/m³ (breathable fraction).
Appropriate engineering controls:	A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

Individual protection measures, such as personal protective equipment (PPE)

Hand protection:	PVC Gloves.
Eye protection:	Wide-vision impact-resistant chemical splash goggles.
Skin protection:	PVC apron and safety shoes.

Respiratory protection:	Mask with filter for organic vapors.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.
Color:	Not available.
Odor:	Characteristic.
Melting point/freezing point:	Not available.
Boiling point (or initial boiling point or boiling range):	Not available.
Flammability:	Not available.
Lower and upper explosion limit/ flammability limit:	Not available.
Flash point:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	6.5 to 7.
Kinematic viscosity:	Not available.
Solubility:	Miscible in water.
Partition coeficient n-octanol/water (log value):	Not available.
Vapor pressure:	Not available.
Density and/or relative density:	Not available.
Relative vapor density:	Not available.
Particle characteristics:	Not applicable.
Other information:	Absolute density: 1.08 g/cm³.

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions, including those associated with foreseeable emergencies:	There are not known hazardous reactions with the product.

Conditions to avoid:	High temperatures. Contact with incompatible materials.
Incompatible materials:	Oxidizing agents and strong base.
Hazardous decomposition products:	No dangerous decomposition products are known.

11 - TOXICOLOGICAL INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics:	Causes serious eye irritation with redness and pain.

Delayed and immediate effects and also chronic effects from short and long-term exposure

Acute toxicity:	Product not classified as acute toxic by oral. ATEmix Oral: > 5000 mg/kg.
Skin corrosion/irritation:	It is not expected to cause skin irritation.
Eye damage/irritation:	Causes serious eye irritation with redness and pain.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	It is not expected to be carcinogenic.
Reproductive toxicity:	It is not expected to be reproductively toxic.
Specific target organ toxicity (single exposure):	It is not expected to exhibit specific target organ toxicity by single exposure.
Specific target organ toxicity (repeated exposure):	It is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Ecotoxicity:	Not classified according to the used criteria, however, it presents relevant data, as described below.
Persistence and degradability:	It is expected that the product presents persistence and it is not considered readily biodegradable.
Bioaccumulative potential:	Presents low bioacumulative potencial in aquatic organisms.
Mobility in soil:	Not determined.
Other adverse effects:	No other environmental effects known.

SAFETY DATA SHEET

Product: BIOMARKS

13 - DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:	Must be disposed of as waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product. Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

14 - TRANSPORT INFORMATION

International regulations

Road:	DOT - U.S. Department of Transportation.- Code of Federal Regulations.
UN number:	Not classified as hazardous for the road transportation.
Environmental hazards:	The product is not considered dangerous for the environment for land transport.
Sea:	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	Not classified as hazardous for water transportation.
Environmental hazards:	It's not considered a marine pollutant for transportation.
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	Not classified as dangerous for air transport.
Environmental hazards:	The product is not considered dangerous for the environment for air transport.
Transport in bulk (according to IMO instruments):	Consult regulations: • International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006; • International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.
Special precautions for user:	Not applicable.

15 - REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:	Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

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SAFETY DATA SHEET

Product: BIOMARKS

16 - Other information, including date of preparation or last revision

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Change control:

Version	Manufacture date	Changes
01	06/29/2026	Elaboration

Abbreviations:
ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
CAS - Chemical Abstracts Service;
EC - European Community;
EEC - European Economic Community;
EPA - United States Environmental Protection Agency;
IARC - International Agency for Research on Cancer;
NIOSH - National Institute for Occupational Safety and Health;
OSHA - Occupational Safety & Health Administration;
PBT - Persistent, bioaccumulative and toxic;
PEL - Permissible Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
vPvB - Very Persistent and very Bioaccumulative.

Suppliers:
TOTAL BIOTECNOLOGIA INDÚSTRIA E COMÉRCIO LTDA.
Rua Emílio Romani, 1190 - CIC, CEP: 81460-020 - Curitiba - PR - Brazil.
Phone number: + 55 (41) 3099-7300
Emergency phone number: + 55 (41) 3099-7300
regulatorio@biotrop.com.br

Bibliographic references:
ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2026.

CONCAWE - HAZARD CLASSIFICATION AND LABELLING OF PETROLEUM SUBSTANCES IN THE EUROPEAN ECONOMIC AREA. Available in: <https://www.concawe.eu/>. Access at: Jun. 2026.

ECHA - EUROPEAN CHEMICAL AGENCY. Available in: <http://echa.europa.eu/web/guest>. Access at: Jun. 2026.

EPA - UNITED STATES ENVIRONMENTAL PROTECTION AGENCY. Available in: <https://www.epa.gov/>. Access at: Jun. 2026.

GESTIS - SUBSTANCE DATABASE. Available in: <https://gestis-database.dguv.de/>. Access at: Jun. 2026.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available in: <http://pubchem.ncbi.nlm.nih.gov/>. Access at: Jun. 2026.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available in: <http://monographs.iarc.fr/ENG/Classification/index.php>. Access at: Jun. 2026.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available in: <http://www.cdc.gov/niosh/>. Access at: Jun. 2026.

OSHA - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION. UNITED STATES DEPARTMENT OF LABOUR. < https://www.osha.gov/chemicaldata/search >. Access at: Jun. 2026.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available in: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>. Access at: Jun. 2026.