BIOTROP
Biosolutions for Agriculture

SDS

In compliance with OSHA HCS 29 CFR 1910.1200

SAFETY DATA SHEET

Product: ABSORBIO

Revision: 01	Date: 07/24/2026	Pages: 1/7

1 - IDENTIFICATION

Product identifier:	ABSORBIO
Other means of identification:	ABSORBIO
Recommended use of the chemical and restrictions on use:	Soil amendment.
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:	Not classified as hazardous by the classification system used.
Classification system adopted:	OSHA HCS 29 CFR 1910.1200 Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.
Caution recommendations:	Wash your hands after handling the product. During handling of the product do not drink, eat or smoke. It is recommended the use of appropriate PPE when handling the product. Get product information before handling. Store product in a suitable place. In case of emergency, proceed as indicated in this document.
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:	Not applicable

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE ABSORBIO

Components contributing to the hazard:

Product identifier	CAS/EC	Concentration range (%)
Industrial secret 1 [1]	NA	80.0 - 100.0
Azospirillum brasilense [1]	NA	1
Pseudomonas fluorescens [1]	68332-93-4	0.5

[1] Ingredient not classified as dangerous by the classification system used.
NA: Not applicable.

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4 - FIRST-AID MEASURES

Description of necessary measures

Inhalation:	Remove victim to fresh air.
Skin contact:	Wash exposed skin with sufficient amount of water to remove the product.
Eye contact:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy. If eye irritation occurs: consult a doctor. Bring this document.
Ingestion:	Wash the victim's mouth with plenty of water. Contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms/effects, acute and delayed:	No symptoms and effects are expected after exposure to the material.
Indication of immediate medical attention and special treatment needed, if necessary:	If necessary, provide symptomatic treatment.

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 leakage from sources of ignition. Stop the leakage if it can be done without risk. Do not smoke. Avoid contact with the product. If necessary, use personal protective equipment as described in section 8. **For emergency responders:** Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask. **Emergency procedures:** Avoid that the spilled product reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural or spill containment barriers. Collect spilled products and place them in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or any inert product. Place the adsorbed product in proper containers and remove it to a safe place. For final disposal, proceed according to Section 13 of this document.

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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. If necessary, 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. The product is not expected to present a fire or explosion hazard.
Conditions for safe storage, including any incompatibilities:	Store in a covered, dry, well-ventilated place away from sunlight. Keep the container closed. Protect containers from 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:	No occupational exposure limits are established.
Biological limit:	No biological indicators of exposure are established.
Other limits and values:	No other limits and values are established.
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.

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 boots or shoes.
Respiratory protection:	Mask with filter for organic vapors.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.
Color:	Not available.
Odor:	Not available.
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:	Not available.
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 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:	No symptoms and effects are expected after exposure to the material.

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

Acute toxicity:	It is not expected to be acutely toxic.
Skin corrosion/irritation:	It is not expected to cause skin irritation.
Eye damage/irritation:	It is not expected to cause eye irritation.
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:	It is not expected to be ecotoxic.
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.

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.

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	07/24/2026	Elaboration

Abbreviations:
ACGIH - American Conference of Governmental Industrial Hygienists;
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;
vPvB - Very Persistent and very Bioaccumulative.

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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: Jul. 2026.

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

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

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

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

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

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