



MATERIAL SAFETY DATA SHEET (MSDS)

According to Regulation (EC) No.
1907/2006

Revision Date	01
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Form No.	001.01 EN

OrganoPlantis SeaVital

SEAWEED-BASED LIQUID ORGANIC FERTILIZER

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/ UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product trade name	OrganoPlantis SeaVital
Product form	Liquid Organic Fertilizer containing seaweed extract, cytokinin, argillic acid, organic matter, and organic carbon
Product Use	Specially formulated liquid organic fertilizer for soil and foliar applications. Enhances root development, supports generative organ formation, regulates hormonal balance, and improves stress tolerance (before and after abiotic stress).

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Field	Content
Identified Uses	Professional agricultural use as a liquid organic fertilizer to improve growth, flowering, fruit set, and crop quality. Provides protective effects before stress conditions and supports recovery afterwards.
Uses Advised Against	Not intended for human or animal consumption. Not to be used in food or feed manufacturing.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Field	Content
Company Name	Ecobigen Gübre Tarım Sanayi Tic.Ltd.Şti
Address	Alparslan Mah. Samsun 1. Sok. No:13, Bafra, Samsun, Türkiye
Phone	+90 362 544 21 02
Web Site	https://agrobigen.com.tr/
E-Mail	info@ agrobigen.com.tr

1.4. EMERGENCY PHONE NUMBER

Field	Content
Country	TURKIYE
Organisation/ Company	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzıssıhha Merkezi Başkanlığı
Address	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara
Emergency Call Center	114
Comment	Information is provided to the public and medical personnel on poisoning incidents via 114.

SECTION 2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) No 1272/2008 [CLP], this product is not classified as hazardous.

- The mixture is primarily composed of organic material and does not contain substances classified as hazardous at relevant concentrations.
- No oxidizing, corrosive, sensitizing, carcinogenic, or environmentally hazardous properties are known under normal use.

2.2 LABEL ELEMENTS

Signal Word: None required

HAZARD STATEMENTS (H)

Not applicable

PRECAUTIONARY STATEMENTS (P)

- P264 – Wash hands thoroughly after handling.
- P280 – Wear protective gloves if prolonged contact is expected.
- P273 – Avoid release to the environment.
- P501 – Dispose of contents/container in accordance with local regulations.

2.3 OTHER HAZARDS

This product does not contain substances identified as PBT (Persistent, Bioaccumulative, Toxic) or vPvB (very Persistent, very Bioaccumulative). Decomposition at high temperatures may release irritating organic vapors and ammonia gases.

Product is biodegradable but may contribute to nutrient loading in water bodies if released in large quantities.

SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not applicable – this product is a mixture.

3.2 MIXTURES

The product is a liquid organic fertilizer composed entirely of fermented organic matter derived from agricultural or plant-based sources.

Component	CAS Number	EC Number	Concentration (% w/v)	Classification (Reg. EC 1272/2008)
Organic Slurry / Post-Fermentation Sludge	—	—	>20%	Not classified
Seaweed Extract (kelp-based)	84775-78-0	283-907-6	>25%	Not classified

Note: The organic slurry consists primarily of biodegradable organic compounds such as humic substances, organic nitrogen, free amino acids, and plant residues. It contains no hazardous substances at concentrations requiring classification. The soy-derived amino acids are added to enhance nutrient availability and biostimulant activity.

SECTION 4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General Advice	In case of any adverse health effects or persistent symptoms, seek medical attention. Provide this Safety Data Sheet (SDS) to the medical personnel.
Eye Contact	Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical advice immediately.
Skin Contact	Wash the affected area thoroughly with soap and water. Remove and wash contaminated clothing before reuse. If skin irritation occurs or continues, consult a physician.
Inhalation	Remove the affected person to fresh air and keep at rest in a position comfortable for breathing. If symptoms such as coughing or difficulty breathing develop or persist, seek medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting unless instructed by medical personnel or a poison center. If the person feels unwell, obtain medical assistance.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye contact: May cause temporary irritation, redness, and blurred vision.
- Skin contact: May cause mild irritation or redness, especially in sensitive individuals.
- Inhalation: Prolonged exposure to vapors or mists may cause mild respiratory discomfort.
- Ingestion: May lead to gastrointestinal discomfort such as nausea or vomiting.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- No specific antidote is known.
- Treatment should be symptomatic and supportive based on clinical assessment.
- In cases of significant exposure, ensure that the airway is open and vital signs are stable.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing media appropriate for the surrounding fire, such as: Water spray or mist, Alcohol-resistant foam, Carbon dioxide (CO ₂), Dry chemical powder
Unsuitable Extinguishing Media	None known under normal use conditions.

Special Hazards Arising from the Substance or Mixture	Avoid using high-pressure water jets, as these may spread the liquid material.
	The product is not classified as flammable, but under fire conditions, it may emit irritating or toxic fumes such as nitrogen oxides (NO _x) or carbon-based vapors due to organic content. Containers may build pressure and rupture when exposed to fire or high heat.
Advice for Firefighters	Firefighters should wear full protective equipment, including a self-contained breathing apparatus (SCBA) operating in positive pressure mode. Prevent firefighting runoff from entering drains, surface water, or soil.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Ensure adequate ventilation in the affected area. Avoid direct contact with skin and eyes. Wear suitable personal protective equipment (PPE), including gloves, protective goggles, and coveralls. In the event of large spills, isolate the area and remove any unnecessary personnel. Although not flammable, eliminate all ignition sources as a precautionary measure for general safety.
Environmental Precautions	Prevent the material from entering surface waters, storm drains, or soil. In case of significant spillages, notify local environmental authorities in accordance with applicable regulations. Avoid contamination of natural water sources due to potential nutrient loading effects.
Methods and Material for Containment and Cleaning Up	Stop the source of the leak if it can be done safely. Absorb the spilled material with an inert, non-combustible absorbent (e.g., sand, soil, vermiculite). Collect the material in properly labeled containers for disposal according to local waste management regulations. Wash the contaminated area with water. Avoid using high-pressure water jets which may spread the spill. Ensure complete cleanup to prevent slippery surfaces.
Reference to Other Sections	For personal protective equipment, refer to Section 8. For disposal considerations, refer to Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	<p>Avoid contact with skin, eyes, and clothing.</p> <p>Do not breathe vapors, aerosols, or mists during application or mixing.</p> <p>Ensure adequate general or local ventilation when handling large quantities or applying in enclosed areas.</p> <p>Wear appropriate personal protective equipment (PPE); see Section 8.</p> <p>Do not eat, drink, or smoke while handling the product.</p> <p>Wash hands and exposed areas thoroughly with soap and water after handling.</p> <p>Avoid spills and minimize splashing during transfer and mixing operations.</p> <p>This product is not flammable, but good general hygiene and handling practices should be maintained.</p>
Conditions for Safe Storage, Including Any Incompatibilities	<p>Store in a cool, dry, and well-ventilated area.</p> <p>Keep containers tightly sealed when not in use.</p> <p>Avoid exposure to direct sunlight, freezing temperatures, and excessive heat.</p> <p>Do not store near strong acids, strong bases, or oxidizing agents.</p> <p>Avoid prolonged storage in metallic containers unless treated or coated for corrosion resistance.</p> <p>Store in correctly labeled, original or approved packaging.</p> <p>Prevent accidental release into drains or the environment from storage sites.</p>
Specific End Use(s)	<p>This product is formulated solely for use as a liquid organic fertilizer in agricultural applications (soil and/or foliar).</p> <p>Any other uses are not recommended unless specifically authorized by the manufacturer or supplier.</p>

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

No specific occupational exposure limits (OEL) have been established for this mixture.

For individual organic inputs (e.g., organic slurry), consult national or EU regulations if applicable, although they are typically exempt from OEL classification.

8.2. EXPOSURE CONTROLS

Appropriate Engineering Controls	<p>Provide adequate general ventilation in areas where the product is handled or applied.</p>
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Local exhaust ventilation is generally not required for standard agricultural use.
Avoid aerosol formation during spraying or agitation.

8.3. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye Protection	Wear safety goggles or a face shield compliant with EN 166 if there is a risk of splashing.
Skin Protection	Wear protective gloves (e.g., nitrile, latex) and long-sleeved work clothing to minimize skin contact.
Respiratory Protection	Not required under normal agricultural use in open or ventilated areas. If applied in enclosed or poorly ventilated spaces, or if mist formation occurs, wear a particulate respirator with a P2 or P3 filter.
Hygiene Measures	Wash hands and face with soap and water after handling. Do not eat, drink, or smoke during use. Wash contaminated clothing before reuse. Maintain good personal hygiene and keep work clothing separate from domestic laundry.



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brownish liquid
Odor	Mild organic odor
pH (20°C)	4.0–6.0
Density	~1.20 g/cm ³
Boiling Point	>100°C (aqueous solution)
Freezing Point	~0°C
Solubility	Fully water-soluble
Viscosity	~50–200 cP
Oxidizing Properties	Not applicable – no oxidizing agents present

9.2 OTHER INFORMATION (NUTRIENT COMPOSITION)

Organic matter	20%
Organic carbon	8%
Argillic Acid	8%
Cytokinin	80 ppm

SECTION 10. STABILITY AND REACTIVITY

Reactivity	The product is not reactive under normal handling and storage conditions. It does not contain oxidizing agents or components that promote combustion.
Chemical Stability	Stable under normal conditions of storage and use. No hazardous decomposition occurs if stored and used as recommended (see Section 7).
Possibility of Hazardous Reactions	No hazardous polymerization is expected. May react with strong acids or bases, releasing ammonia or organic degradation by-products.
Conditions to Avoid	Excessive heat or freezing Direct sunlight Contamination with strong acids, bases, or incompatible chemicals
Incompatible Materials	Strong acids and alkalis Strong oxidizing agents (e.g., peroxides, nitric acid) Reactive metals (e.g., aluminum, zinc in acidic environments)
Hazardous Decomposition Products	In case of fire or extreme heat, decomposition may release: Ammonia (NH ₃), Carbon dioxide (CO ₂), carbon monoxide (CO), Organic vapors or fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Endpoint	Assessment
Acute Toxicity (Oral)	Estimated LD ₅₀ (rat) > 2000 mg/kg body weight. Not classified as acutely toxic under CLP.
Skin Corrosion/Irritation	May cause slight skin irritation in sensitive individuals upon prolonged contact. Not classified as hazardous.
Serious Eye Damage/Irritation	May cause mild eye irritation. Not classified. Rinse thoroughly if contact occurs.
Respiratory or Skin Sensitisation	Not expected to be a sensitiser. No known sensitising agents in the composition.
Germ Cell Mutagenicity	Not classified. No data available suggesting mutagenic potential.
Carcinogenicity	Not classified. No components listed as carcinogenic by IARC, NTP, or OSHA.
Reproductive Toxicity	Not classified. No evidence of reproductive toxicity.
STOT – Single Exposure	No known specific target organ toxicity from single exposure.

STOT – Repeated Exposure	Not classified. Product is unlikely to cause effects from repeated use under recommended agricultural conditions.
Aspiration Hazard	Not applicable. Product is non-volatile and water-based.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity	<p>This product is not expected to pose acute hazards to aquatic life under recommended agricultural use.</p> <p>LC₅₀ (96h, fish): > 1000 mg/L (based on data from similar organic fertilizer materials)</p> <p>EC₅₀ (72h, algae): > 100 mg/L</p> <p>These values indicate low acute aquatic toxicity. However, excessive discharge may contribute to nutrient loading in water bodies.</p>
Persistence and Degradability	<p>The organic matter fraction is readily biodegradable through microbial action in soil or compost systems.</p> <p>No persistent synthetic additives are present.</p>
Bioaccumulative Potential	<p>Components (e.g., organic carbon, nitrogen compounds) have low potential for bioaccumulation.</p> <p>Product is mostly made up of biodegradable and natural materials with short environmental half-lives.</p>
Mobility in Soil	<p>Fully water-soluble; product may move through soil with water, especially during heavy irrigation or rainfall.</p> <p>May enter surface waters via runoff if misapplied. Use buffer zones near aquatic areas.</p>
Results of PBT and vPvB Assessment	<p>Based on current EU criteria, the product does not contain substances classified as:</p> <p>PBT (Persistent, Bioaccumulative and Toxic) or vPvB (very Persistent and very Bioaccumulative).</p>
Other Adverse Effects	<p>No known long-term ecological effects when used as directed.</p> <p>Avoid uncontrolled discharge into surface waters to prevent eutrophication due to high organic and nutrient content.</p>

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Product Waste Disposal	<p>Dispose of the product in accordance with local, regional, and national environmental regulations.</p> <p>Do not allow unused product to enter surface water, groundwater, drainage systems, or directly into soil unless specifically authorized.</p>
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Packaging Disposal	<p>If disposal via sewage system is considered (e.g., for dilute waste), consult local authorities first.</p> <p>Recommended Waste Code (European Waste Catalogue – EWC):</p> <p>02 01 09 – Waste from agriculture, horticulture, aquaculture, forestry, hunting and fishing: waste fertilizers other than those mentioned in 02 01 08.</p> <p>(Note: This code is more appropriate than 06 10 99, as the product is biologically derived, not chemically synthesized.)*</p>
	<p>Empty containers should be triple-rinsed with water.</p> <p>Rinse water can be reused in fertilizer application tanks if compatible.</p> <p>After complete rinsing, containers may be:</p> <p>Recycled, where facilities exist, or</p> <p>Disposed of as non-hazardous plastic waste, in compliance with local regulations.</p> <p>Do not reuse empty containers for storage of food, beverages, or any other materials.</p>

13.2 ADDITIONAL NOTES

- Do not incinerate sealed containers due to potential pressure build-up.
- Avoid uncontrolled dumping or landfilling.
- Where possible, engage licensed waste management services to handle product residues and packaging.
- Encourage end-users to follow good agricultural practices and minimize environmental impact during disposal.

SECTION 14. TRANSPORT INFORMATION

Parameter	Details
UN Number	Not regulated (No UN number assigned – non-hazardous material)
Proper Shipping Name	Not classified as dangerous for transport
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Label(s)	None required
Marine Pollutant (IMDG)	No – Product does not contain substances classified as marine pollutants
Environmentally Hazardous	No – Not classified as environmentally hazardous under ADR/IMDG/IATA
Transport in Bulk (MARPOL/IBC)	Not applicable – Not intended for transport in bulk under MARPOL Annex II or IBC Code

Special Precautions	Avoid freezing and prolonged exposure to high temperatures. Ensure containers are sealed and upright during transport.
Remarks	Product is a non-hazardous liquid organic fertilizer. Transported as agricultural commodity. Follow general good transportation practices. This product is classified as non-DG (non-dangerous goods) for transport by road, sea, and air.

SECTION 15. REGULATORY INFORMATION

15.1. EU AND INTERNATIONAL REGULATIONS

CLP Regulation (EC) No 1272/2008	This product is not classified as hazardous under the CLP Regulation. It does not require classification for health or environmental hazards, but general precautionary labeling may apply based on best practices (e.g., eye/skin contact).
REACH Regulation (EC) No 1907/2006	The ingredients in this mixture are either: Pre-registered, fully registered, or exempt under REACH due to their natural origin (e.g., post-fermentation organic slurry). Not listed as substances of very high concern (SVHC).
Transport Regulation	Not classified as hazardous for transport under international regulations (see Section 14). No UN number is assigned. No specific labelling required.

15.2 LOCAL AND NATIONAL REGULATIONS

TR Türkiye	<ul style="list-style-type: none"> Complies with the "Organik ve Organomineral Gübreler Yönetmeliği" of the Turkish Ministry of Agriculture and Forestry. Product must be registered and authorized prior to market release. Components must conform to the "Kimyasalların Envanteri ve Kontrolü Hakkında Yönetmelik" for any hazardous declarations (if applicable).
AZ Azerbaijan	<ul style="list-style-type: none"> Complies with the rules and procedures for fertilizer registration, labeling, and safe usage established by the Republic of Azerbaijan. Controlled under the "Azərbaycan Respublikasının Gübrələrin Qeydiyyatı və Təhlükəsiz İstifadəsi Qaydaları". Import, sale, and use must align with the State Phytosanitary Control Service and Ministry of Agriculture regulations.

SECTION 16. OTHER INFORMATION

Prepared by	AGROBİGEN R&D Department
Issue Date	2025-09-30
Version	1.0

Key to Abbreviations and Acronyms

- CAS - Chemical Abstracts Service Registry Number
- EC Number - European Community Number
- CLP - Classification, Labelling and Packaging Regulation (EC) No 1272/2008
- REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
- SDS - Safety Data Sheet
- LD₅₀ - Median Lethal Dose (dose at which 50% of test animals die)
- LC₅₀ - Median Lethal Concentration (concentration at which 50% of test organisms die)

Relevant Hazard Statements (H-Statements)

The following hazard statements may apply depending on the formulation and handling:

- H272 - May intensify fire; oxidizer
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation

These statements are not applicable to the current formulation.

Note: These H-statements are provided for informational purposes. The current formulation of ORGANOPLANTIS ORGANOSOIL40 is not classified as hazardous under CLP Regulation.

Disclaimer

The information contained in this Safety Data Sheet is provided to the best of our knowledge as of the issue date. It is based on current legislation, scientific evidence, and reliable data sources.

However, ORGANOPLANTIS make no warranties, express or implied, and assume no legal responsibility for the accuracy, completeness, or use of this data.

The user is responsible for determining the suitability of the product for any particular use and for ensuring compliance with all applicable laws and regulations in Türkiye, Azerbaijan, and other jurisdictions where the product may be marketed or applied.