

Version 1.2
Revised: 15.04.2021

SECTION 1 – PRODUCT IDENTIFIER

1.1 Product name: meCafe Algae

other name: Fermentia Alga Plus

This product contains algae and bacterial strains.

1.2. Relevant identified use: For research use only (RUO)

This microbiological preparation for soil treatment of dicotyledonous plants.

Spray out onto the soil and /or leaf in quantity of 1.0 liter diluted in 200l water for 1 hectare

After spraying out to soil, work it into it.

Uses advised against: other than above

1.3. Details of the person responsible for Safety Data Sheet:

Producer: **Fermentia Microbiological Ltd**
Berlini str 47-49
1045 Budapest
HUNGARY
Tel/Fax
Web: www.fermentia.hu
Email: info@fermentia.hu

Contact Person: Dr. Balázs Erdélyi
Emergency telephone number: +36 1 3696024; +36 30 3502847

SECTION 2 – HAZARDS IDENTIFICATION

2.1. Classification of the mixture: this preparation does not meet the criteria for classification according Regulation EC No. 1272/2008 (CLP1).

It is a non-hazardous mixture.

Classification: not necessary.

2.2. Label elements

Pictogram, signal word: not necessary. **Hazard statement:** not necessary.

Precautionary statements:

P102 KEEP OUT OF REACH OF CHILDREN.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection (Type 3).

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P501 Dispose of contents/container: at hazardous waste disposal sites.

2.3. Other hazards and information

Do not mix with antibacterial and antifungal preparations.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Chemical description: the product is a fluid mixture.

It does not contain ingredients classified as hazardous according to criteria of Reg. EC No. 6300/62-1/2021NÉBIH

Composition of the product:

Chlorella microalgae strains and bacterial strains. All strains are considered as GRAS1, safe strains.

0.3 m/m% microalgae cultures, total cell count: min. 1.0×10^8 CFU/l *Chlorella vulgaris*; *Chlorella zofingiensis*

0.5 m/m% bacterial cultures, total cell count min. 1.0×10^7 CFU/l *Azotobacter vinelandii*; *Azospirillum canadense*; *Bacillus proteolyticus* in fermentation materia

Fermentation materials do not have harmonised classification, according to manufacturers they are non-hazardous material.

SECTION 4 – FIRST AID MEASURES

4.1. Description of first aid measures

The work should be immediately discontinued in case of infection, allergic reaction or suspicion thereof. After on-site first aid (see Section 4.1) medical, institutional care should be provided.

Eye contact: flush eyes with running water holding the eyelids wide open and moving eyeballs continuously.

Ingestion: rinse mouth with water. If discomfort persists refer for medical attention. Show physician the label or the safety data sheet of the product.

4.2. Most important symptoms and effects, both acute and delayed: not known.

4.3. Indication of any immediate medical attention and special treatment needed: not any.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media: water, dry foam, dry powder, carbon dioxide. Extinguishing media and measures have to suit surroundings.

5.2. Special hazard arising from the mixture: not known.

5.3. Advice for fire-fighters: fire fighters should wear self-contained breathing apparatus and full protective gear. Keep unprotected person away.

Other information: the product is not a flammable mixture. Contaminated fire-fighting water and remains of fire should be disposed in compliance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Person-related precautionary measures: Avoid eye contact.

6.2. Environmental precautions: ensure that the spilled material, its waste and packaging material do not enter sewers, drains and natural watercourses. Dispose large amount of the product in accordance with local environmental regulations.

6.3. Methods and material for containment and cleaning up: ensure good ventilation. Shovel up and place in a labeled, sealable container for safe disposal to an authorized hazardous waste disposal plant or add to the compost. Avoid dust formation.

6.4. Reference to other sections: see Section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling: comply with the user's instructions, pay attention of precautionary statements. Follow general hygiene and occupational safety measurements. Prevent any exposure with the product; see Section 8 for personal protective equipments. Do not eat, and smoke during handling. Work carefully to prevent accidental eye and skin contact, spilling, inhalation and ingestion of the product. Wash hands thoroughly at the beginning of every work break, at the end of the working day, and before eating, drinking and smoking.

Specific measures in case of fire and explosion: not necessary.

7.2. Conditions for safe storage, including any incompatibilities: keep out of reach of children and unauthorized persons. Keep far away from foodstuff, feeding stuff, drinks and any incompatible materials.

Shelf life: 6 month; recommended storage temperature: between 5 - 20°C. Store in its original container, keep it tightly closed in well-ventilated, dry area. After opening the product is to be used within 2 weeks.

Durability after opening: 2 weeks.

7.3. Specific end use: microbiological preparation for soil treatment of dicotyledonous plants. Users should read and keep the safety instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limits (in air of working place): no data.

8.2. Exposure controls:

Work carefully; avoid contact with eyes, skin and incidental ingestion. Do not breathe dust.

Technical measures:

- Ensure good ventilation.

Hygiene measures:

- Do not eat, drink or smoke while handling.
- Wash face and hands thoroughly after work and at the beginning of meal breaks.

Personal protective equipments:

Hand protection: protective gloves are recommended.

Body protection: use protective suit and hat.

The information above relate to professional and intended use in average circumstances. If operation is done in different or exceptional circumstances, you should consult an expert to decide on additional necessary actions and personal protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: fluid

Appearance: fluid

Color: green

Odour: characteristic

pH: 6,16 ± 0,5

Organic matter content: minimum 3%

Density: minimum 1,02 kg/dm³

Boiling point: not available

Flash point: not relevant

Ignition temperature: not available

Auto ignition temperature: not relevant

Oxidizing properties: not oxidizing

Explosive properties: not explosive

Vapour density/pressure: not relevant

Evaporation rate: not relevant

9.2. Other information: no data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: non-reactive.

10.2. Chemical stability: it is stable under the given conditions, see Section 7.2.

10.3. Possibility of hazardous reactions: not known.

10.4. Conditions to avoid: heat, direct sunlight, direct sunlight, humidity.

10.5. Incompatible materials: strong acids, bases, oxidizing agents, antibacterial and antifungal preparations.

10.6. Hazardous decomposition product: not known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects of the product: no investigation was performed with this product.

Assessment of toxicological properties is based on concentration and classification of ingredients and classification criteria of Reg. EC No. 1272/2008 (CLP) regulation. It does not present health hazard if it is handled, stored and disposed properly.

Acute toxicity (oral, dermal and inhal.): based on available toxicological data and concentration of the components product is not classified as acutely harmful, if swallowed, inhaled or absorbed through skin.

Skin corrosion/irritation: based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: based on available data, the classification criteria are not met.

Respiratory or skin sensitization: based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, germ-cell mutagenicity and reproductive toxicity): based on available data, the classification criteria are not met as components of the product are not classified as CMR compounds.

Specific target organ toxicity (single and repeated exposure: based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

Aspiration hazard: not relevant.

General rules and good practices of handling chemicals should be followed. When used and handled according to instructions, the product does not pose any harmful effects according to our experience and the information provided to us.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity: according to its composition it is not classified as dangerous preparation to the aquatic environment.

12.2. Persistence and degradability: it is biodegradable. Not relevant or inorganic component

12.3. Bioaccumulative potential: not likely, it is not bio accumulative.

12.4. Mobility in soil: no mobility data available.

12.5. Result of PBT and vPvB assessment: not available.

12.6. Other adverse effect: not known.

SECTION 13: DISPOSAL CONSIDERATIONS

If it is possible avoid or at least minimize waste generation.

13.1. Waste treatment methods: chemicals and its waste and packaging must be disposed of in compliance with state and local regulations. Contact your sales representative or local environmental or health authorities for approved disposal methods.

EWC codes may vary depending on place of use, circumstance of waste generation.

European Waste Catalogue/EWC code: 02 01 08*

Do not empty waste into drains, rivers, watercourses, ponds, standing waters, natural waterways.

SECTION 14: TRANSPORT INFORMATION

The product is **not dangerous goods** according to the international transport regulations, ADR/RID, IMDG, ICAO-TI and IATA-DGR.

SECTION 15: REGULATORY INFORMATION

15.1. Safety health and environmental regulations/legislation specific for mixture

Relevant European Acts:

Regulation (EC) No 2003/2003 and its amendments relating to fertilizers

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and its modifications CLP and its modifications:

Regulation (EC) No 1272/2008 and of the European Parliament and of the Council on Classification, labeling and packaging of substances and mixtures Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste.

15.2. Chemical Safety Assessment: has not been carried out.

SECTION 16: OTHER INFORMATION

The information contained in the Safety Data Sheet is true and correct to our best knowledge at the date of issue; it is intended as a guide for safe use, handling, disposal, storage and transportation.

Manufacturer and distributor does not assume any warranty or responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected to the handling, storage, use or disposal of the product because conditions of application, handling, storage, use or disposal of the product is beyond our control.

16.1. Full text, explanations H-statements and hazard classes for the pure substance(s) referred to in Section 2 and 3: not relevant.

16.2. History: this safety data sheet (version: 1.0 EN) is issued: 15/04/2021 based on the Hungarian safety data sheet (version 1.0-HU) issued on the same day.