

## **SAFETY DATA SHEET**

Prepared according to REACH 1907/2006/EC and 1272/2008/EC

### **SECTION 1: Identification of the substance/mixture and the company**

1.1. Product identifier: **AGRITURF Bio Premium Turf Liquid** – biostimulant preparation

Commercial name: **AGRITURF Bio Premium Turf Liquid – biostimulant preparation**

Commercial and use license: FB 007493 001

1.2. Properly identified use of the substance or mixture, or contra-indicated use

Area of use: Soil and plant treatment

1.3. Details of the supplier of the safety data sheet:

Production company: AGRITURF 2022 Zrt.

Address: 3400 Mezőkövesd, 0220/3 hrsz. Hungary

Phone: +36-30 9862 440

E-mail: [eva.penzes@agriturf.hu](mailto:eva.penzes@agriturf.hu)

1.3.1. Name of responsible person: director

1.4. Emergency telephone number: Address: Health Toxicological Information Service (ETTSZ)

1096 Budapest, Nagyvárad tér 2.

Tel.: (36) 80/201-199 (0-24 h); (36-1-) 476-6464

### **SECTION 2: Hazard classification**

2.1. Classification of the substance or mixture

Product definition: Turf extract

Classification according to 1999/45/EC and EEC 67/548: The product does not require labeling.

Classification according to 1272/2008/EC: The product is not classified.

## 2.2. Label

**Ingredients: Turf - CMC 1**
**Appearance:** dark colour liquid with characteristic odour

**Active Compound:** Turf

**Organic matter content:** 33 m/m% DM

**Organic C-content:** 18 m/m% DM

**Instruction for use:**

Crops	Application rates (l/ha)	Application method	Application stage	Application number	Claims
Broadacre	3 to 10 l/t*	seed treatment	BBCH 00	1	quality traits
	50 l/ha*	foliar pulverization	BBHC 1, 5,6***	2 to 3	

\* Minimum offered dilution: min 10 l/t

\*\* Minimum offered dilution: min 300 l/ha

\*\*\*Possibility of application during flowering: yes

## Further information for usage:

1. Seed treatment: The seeds can be treated with any other treatment before sowing. The concentration of recommended treatment solution varies by plant culture.
2. Foliar pulverization: The treatment frequency depends on the plant culture. Usually 2 to 3 sprays are required. The optimal time of first treatment is during BBCH1, while other foliar pulverization has to be carried out during BBCH 5-6.

*Sowing areas should only be treated in the evening, after sunset or on an overcast day. The concentrate must be diluted. The maximum ratio is 1:30, depending on soil moisture. The diluted concentrate must be sprayed during the vegetation period. The intended fertilizer dosage should be decreased with min. 50%. It can be mixed with plant protection products excluding high copper content preparations. Product can be applied with normal spray machine.*

*The product must not come into contact with aluminum, as it may lose its effect.*

**Hazard classification, danger symbols:** no indication is needed

**Precautionary statements / P-phrases:**

<b>P102</b>	Keep out of reach of children
<b>P264</b>	Wash hands thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.
<b>P280</b>	Wear suitable protective gloves/clothes/eye protection. Wear face protection with filter cartridge.
<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of water.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
<b>P362+P364</b>	Take off contaminated clothing and wash before reuse.
<b>P501</b>	Dispose of contents/container: transport to hazardous waste landfill points.

**Re-entry time:** 0 day. **First Aid Procedure:** In case of infection, allergic disease or suspected infection, work should be interrupted immediately. After first aid on the spot (see general procedure), medical and institutional care must be provided. **Environmental provisions:** Do not contaminate water of rivers, standing water, water courses, reservoirs with the product, its unused residues or its container. It is forbidden to use the product in biosphere reserves and increasingly protected areas. In areas of nature conservation, national parks and landscape protection sites it can only be applied with the prior consent of the nature conservationist.

**Fire and explosion classification:** no indication is needed. **Packing materials:** 1; 5 and 10 litre plastic bottles and cans, 1000 litre plastic container. **Storage conditions:** keep in dry, cool and covered place in original, sealed packages, avoiding sudden and large temperature fluctuations. **Shelf-life:** 2 years.

**Manufacturer/ Licensee:** AGRITURF 2022 Zrt. 3400 Mezökövesd, 0220/3 hrsz. Hungary

**Manufacturing site:** 3400 Mezökövesd, Mezökövesdi Ipari Park, hrsz. 0220/03

**Distributor:** AGRITURF 2022 Zrt. 3400 Mezökövesd, 0220/3 hrsz.

**Customs tariff number:** 68152000

**Manufacturing date:**

**Production ID:**

**Packing:**

**Net content: 1 L; 5 L; 10 L; 1000 L**

2.3. Other hazards

Results of PBT and vPvB assessment: Not applicable.

### **SECTION 3: Composition or information on ingredients**

#### 3.1. Materials

Not applicable.

#### 3.2. Mixtures

Ingredients: water, turf

The preparation must not contain substances that inhibit germination or growth, seeds of quarantine weeds or their vegetative parts, infectious macro- and micro-organisms harmful to human, animal and plant health, toxic, polluting and radioactive substances.

It does not contain substances considered dangerous, or its concentration does not reach the level specified in the relevant legislation, and therefore it is not necessary to indicate it on the safety data sheet!

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General information: No special measures are required.

In the event of poisoning, allergic disease, or suspicion of such, the work must be interrupted immediately, and after on-site first aid, medical and institutional care must be provided. In case of skin contact, the skin must be cleaned with clean water and soap. In case of contact with the eyes, rinse the eyes immediately with plenty of water for at least 15-20 minutes. In case of ingestion, if the victim is conscious, rinse the mouth with water, drink a glass or two of water, and provide medical care. **DO NOT** induce vomiting!

4.2. The most important - acute and delayed - symptoms and effects: No data.

4.3. Indication of immediate medical attention and special treatment needed: Symptomatic treatment is required.

### **SECTION 5: Fire protection measures**

#### 5.1. Extinguishing agent

Non-flammable class

Extinguishing media (suitable): In case of ignition of polyethylene packaging, a suitable extinguishing agent must be used (water spray, ABC extinguishing powder).

5.2. Special hazards arising from the substance or mixture: In the event of fire, carbon dioxide may be released from the packaging material, and a slightly pungent odor may occur when the product is heated.

5.3. A suggestion for firefighters

Protective equipment: Full fireproof protective equipment. In case of fire, a self-contained breathing apparatus must be worn.

## **SECTION 6: Accidental exposure measures**

6.1. Personal precautions, personal protective equipment and emergency procedures

Persons not trained in emergency situations and persons trained in emergency situations:

The product must be prevented from getting into the eyes, mouth and damaged skin.

Protective equipment for preparers and users: Preparers must use protective clothing, protective gloves, and safety footwear. In the case of residential (occasional) small amounts of use, protective gloves must be used.

6.2. Environmental regulations

It is forbidden to dispose of the product, its unused residue, or its contaminated packaging into rivers, stagnant waters, streams, or reservoirs.

Their use in biosphere reserves and highly protected areas is prohibited! In nature conservation areas, national parks and landscape conservation districts, it can only be distributed with the prior consent of the competent nature conservation manager.

In order to protect aquatic organisms and ensure water quality, it is forbidden to store and distribute the product within 50 m of the shore of standing and flowing waters.

6.3. Methods and materials of territorial delimitation and decontamination

The spilled product must be picked up mechanically, the recovered or collected clean material can be used as intended. The contaminated product must be disposed of in accordance with the regulations.

6.4. Reference to other sections

See section 7 for information on safe handling.

See Section 8 for information on personal protective equipment

See Section 13 for disposal information.

## **SECTION 7: Treatment and storage**

### 7.1. Precautions for safe treatment

Treatment: Compliance with standard hygiene procedures is mandatory. In the event of poisoning, allergic disease, or suspicion of such, the work must be interrupted immediately, and after on-site first aid, medical and institutional care must be provided. The safety data sheet must be shown to the doctor.

After working, hands must be washed before eating, smoking, using the toilet, and after working with the product.

Occupational health waiting period: 0 days.

It must not be discharged into the sewer.

Use: Apply 30-50 l/ha of Premium Turf Liquid diluted with 250-300 l of water 2 times in arable crops.

We avoid tearing the product's packaging and the product leaking.

Fire and explosion protection: Not fire and explosion hazard.

No special instructions.

### 7.2. Conditions for safe storage, including possible conflicts of interest

Storage: Protected from sunlight.

Incompatible materials: Keep away from food, drink and feed.

Shelf life: Can be kept for 2 years in original, closed packaging.

7.3. Specific end use(s): Apply 30-50 l/ha of Premium Turf Liquid diluted with 250-300 l of water 2 times in arable field crops.

## **SECTION 8: Exposure controls / personal protection:**

### 8.1. Control parameters:

The workplace exposure limit values are 25/2000. (IX.30.) According to the EüM-SZCSM joint decree: the ingredients of the mixture are according to the 25/2000. (IX.30) According to the joint decree of the EüM-SZCSM, they are not regulated by a limit value.

DNEL		Exposure rout	Exposure frequency	Comment
Employee	User			
no data	no data	Dermal	Short (single use) Long (repeated)	no data
no data	no data	Inhalative	Short (single use) Long (repeated)	no data
no data	no data	Oral	Short (single use) Long (repeated)	no data

PNEC			Exposure frequency	Comment
Water	Soil	Air		
			Short (single use) Long (repeated)	no data
no data	no data	no data	Short (single use) Long (repeated)	no data

## 8.2. Exposure control:

Pursuant to the decree, the employer is obliged to provide the means necessary to achieve the lowest possible exposure.

### 8.2.1. Adequate technical inspection:

During the work, it is necessary to avoid spilling the product, getting it on the floor, clothing, skin or eyes. After work, hand washing, thorough cleaning, showering and changing of clothes are required. Work clothes and protective equipment must be washed with a disinfectant solution after use. In case of infection or allergic disease or if it is suspected, the work must be interrupted immediately.

### 8.2.2 Personal protection, personal precautions, e.g. personal protective equipment:

1. Eye and face protection: use safety glasses that comply with the regulations (EN 166)
2. Skin protection: protective gloves conforming to the regulations must be used (EN 374), protective clothing conforming to the regulations must be used.
3. Airway protection is not necessary.
4. Heat hazard: unknown.

### 8.2.3 Environmental exposure control:

No special instructions.

Based on the environmental factors and the expertise of the users, the above parameters may differ from the average.

**SECTION 9: Physical and chemical properties**

## 9.1. Data on basic physical and chemical properties:

Parameters	Data / Values
1. External characteristics	Dark brown color
2. Smell	itt smells like soil
3. Odor threshold	no data
4. pH value (in 10 % water suspension)	no data
5. Melting point/freezing point	no data
6. Initial boiling point and boiling point range	no data
7. Flash point	no data
8. Evaporation rate	no data
9. Flammability (solid and gaseous state)	no data
10. Lower/ uper flammability limit sor explosive ranges	no data
11. Vapor pressure	no data
12. Vapor density	no data
13. Relative density	no data
14. Solubility(ies)	Unlimited miscibility with water
15. Partition coefficient: n-octanol/water	no data
16. Auto-ignition temperature	no data
17. Decomposition temperature	no data
18. Viscosity	no data
19. Explosivity	no data
20. Oxidising properties	no data



## 9.2 Other information:

<b>Organic matter content:</b>	33 (m/m%) DM
<b>Organic C-content:</b>	18 (m/m%) DM

**SECTION 10: Stability and responsiveness**

Reactivity	none know
Chemical stability	Stable under normal conditions and working conditions
Possibility of hazardous reactions	none know
Conditions to avoid	none know
Incompatible materials	none know
Hazardous ingrediens	none know

**SECTION 11: Toxicological information**

Acute toxicity	none know
Skin corrosion / skin irritation	none know
Eyes damage/eyes irritation	none know
Respiratory or skin sensitization	none know
Germ cell mutagenicity	none know
Carcinogenicity	none know
Reproductive toxicity	none know
Single exposure target organ toxicity (STOT)	none know
Repeated exposure target organ tixicity (STOT)	none know
Aspiration hazard	none know

Summary results of clinical trials	no data available
Toxicological data	no adta available
Possible routes of exposure	Ingestion, inhalation, skin contact, eyes contact
Symtoms related to physical, chemical and toxicological	no data available
Delayed, immediate and chronic effects from short and long term exposure	no data available
Effects resulting from interactions	no data available
Lack of individual data	no information
Other information	no data available

## SECTION 12: Ecological information

Toxicity	no adverse ecotoxicological effects
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
Results of PBT and vPvB assessment	no data available
Other adverse effects	Other adverse effects are not expectes under general and professional use

## SECTION 13: Disposal Considerations

### 9.1. Waste management methods:

The handling and disposal of product residues and packaging materials must be done in accordance with valid and effective local legislation (Act CLXXXV of 2012, Government Decree 225/2015 and Ministerial Decree 72/2013 (VIII.27)).

#### 13.1.1. Product disposal information:

The product and its packaging cannot be considered hazardous waste, but must be treated separately from household waste. The waste register code cannot be entered for the product, this is possible by knowing the method of use, with the involvement of a specialist.

#### 13.1.2. Packaging disposal information:

In accordance with the legal regulations specific to the given packaging material, the packaging material must be treated in the same way as the product.

13.1.3. The physical/chemical parameters affecting the possibilities of waste treatment are not known.

13.1.4. No instructions for waste water treatment are known.

13.1.5. Possible special precautions related to waste treatment methods:

No data available.

#### **SECTION 14: Transport Information**

It is not classified as dangerous goods!

UN number	none
UN proper transport name	none
Transport hazard class	none
Packing group	none
Environmental hazards	none
Necessary special precautions	Protected from light and radiant heat, to be transported in a closed vehicle
MARPOL Convention II. Annex and bulk transport according to the regulations	not applicable

#### **SECTION 15: Regulatory Information:**

1. REACH international regulation: EC Regulation 1907/2006 (December 18, 2006) and its amendments, as well as other related regulations, directives and their amendments.

2. CLP international regulation: Regulation 1272/2008 EC (December 16, 2008) on the classification, labeling and packaging of substances and mixtures, as well as other related regulations, directives and their amendments.

3. COMMISSION Regulation 2015/830 (May 28, 2015) amending Regulation 1907/2006 / EC of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

4. XXV of 2000. Act on Chemical Safety and EüM Decree 44/2000 (XII. 27) on the detailed rules and their amendments for certain procedures and activities related to dangerous substances and dangerous preparations.

5. Domestic waste regulations: CLXXXV of 2012. Act on waste and 225/2015. (VIII.7.) Government Decree, 72/2013. (VIII. 27.) VM Decree on the waste list.

6. Government Decree 220/2004 (VII. 21.) and its amendments regarding water pollution, XCIII of 1993. Act on occupational safety and its amendments, as well as the related provisions, joint decree 25/2000 (IX. 30) EüM-SZCSM and its amendments regarding chemical safety in workplaces.

9.1. Chemical safety assessment: No information available.

#### **SECTION 16: Other information**

The data sheet was created on the basis of the data available to us, the information, data and recommendations contained here are accurate, correct and professional at the time of publication, resulting from the bona fide work of competent professionals. During the use of the preparation, other considerations not mentioned in this document may also become necessary. It is the responsibility of the person performing the activity to consider the reliability of the data sheet, to determine the specific method of use and handling of the product, and to comply with the applicable laws.