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### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name:** Symbio PhytoGro

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Golf Course Wetting Agent, Fertiliser and plant growth stimulant

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

**Company name:**

Origin Amenity Solutions Ltd  
 1-3 Freeman Court,  
 Jarman Way,  
 Orchard Road,  
 Royston,  
 Hertfordshire,  
 SG8 5HW

**Tel:** 0800 138 7222

**Email:** sales.symbio@originamenity.com

#### 1.4. Emergency telephone number

**Emergency phone No.** 0800 138 7222 (09.00 – 17.00 GMT Monday – Friday)

**National emergency telephone number** 111

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Skin Corr: 1C H314

**Most important adverse effects:** Causes severe skin burns and eye damage

#### 2.2. Label elements

**Hazard statements:** H314: Causes severe skin burns and eye damage

**Signal words:** **Danger**

**Hazard pictograms:**



**Precautionary statements:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash ... thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor

P321: Specific treatment (see ... on this label).

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P405: Store locked up.  
 P501: Dispose of contents/container to ...

### 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

## Section 3 Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

#### ALKYL POLYGLYCOSIDE

EC no.	CAS	CLP Classification	Percent
500-220-1	68515-73-1	Eye Dam. 1: H318	1-10%

#### LACTIC ACID

201-196-2	79-33-4	Eye Dam. 1: H318 Skin Corr: 1C H314	1-10%
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#### BIOFLAVONOID

277-143-2	72968-50-4	Skin Irrit. 2: H315; Skin Sens. 1: H317; Asp. Tox 1: H304; Flam. Liq. 3: H226; Aquatic Chronic 2: H411.	<1%
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#### CITRIC ACID MONOHYDRATE

611-842-9	5949-29-1	Eye Irrit. 2: H319	<1%
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#### MALIC ACID

230-022-8	6915-15-7	Eye Irrit. 2: H319	<1%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Immediately obtain medical assistance.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

**Inhalation:** Remove casualty from exposure to fresh air.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

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**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. Vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Eye bathing equipment should be available on site

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers

#### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes

#### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Transfer to a suitable container

#### 6.4. Reference to other sections

Personal protective measures are given in section 8. Disposal advice is given in section 13.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed

**Suitable packaging:** Must only be kept in original packaging.

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### 7.3. Specific end use(s)

For use in sports and amenity turf

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Approved dust mask or respirator (e.g. EN 149:2001 FFP3) for dust if ventilation is insufficient

**Hand protection:** Nitrile gloves PPE Cat. III according to (EU) regulation, 2016/425, thickness 0.15-0.12 mm, breakthrough time, 8 hours. Please also consider your own risk assessment; e.g. tasks undertaken

**Eye protection:** Tightly fitting approved safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Orange
Odour:	Sweet, Citrus
Odour Threshold:	No data available
pH:	Approx. 7
Relative evaporation rate (butylacetate = 1):	No data available
Melting point:	Not Applicable
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature	No data available
Flammability:	Not Applicable
Vapour pressure:	No data available
Relative vapour density at 20°:	No data available
Relative density:	1.30-1.40
Solubility in water:	Miscible
Partition coefficient: n-octanol/water (log Pow):	No data available
Viscosity kinematic:	No data available
Viscosity dynamic:	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits:	No data available

### 9.2. Other information

No data available.

## Section 10: Stability and reactivity

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### 10.1. Reactivity

Stable under recommended transport or storage conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on conditions or materials listed below

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong Oxidising Agents. Strong Acids

### 10.6. Hazardous decomposition products

In combustion emits toxic fumes

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

MONO PROPYLENE GLYCOL

DERMAL	RABBIT	LD50	2 000 mg/kg
ORAL	RAT	LD50	20 000 mg/kg

### Relevant effects for mixture

Hazard	Route	Basis
Serious eye damage / Irritation	OPT	Hazardous: calculated

### 11.2 Symptoms / routes of exposure

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. Visions may become blurred. May cause permanent damage.
- Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation:** There may be irritation of throat with a feeling of tightness in the chest.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

MONO PROPYLENE GLYCOL

ALGAE	96H LC50	19 000 mg/l
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RAINBOW TROUT	96H LC50	40 613 mg/l
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**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

### 12.3. Bioaccumulative potential

No Bioaccumulation potential

### 12.4. Mobility in soil

**Mobility:** rapidly absorbed into soil

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

Negligible ecotoxicity

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Please adhere to regional or national regulations regarding disposal.

## Section 14: Transport information

14.1 UN number UN 1760  
 (ADR, IMDG, IATA)

14.2 Proper shipping name CORROSIVE LIQUID N.O.S.  
 (ADR, IMDG, IATA)

14.3 Transport class(es) 8  
 (ADR, IMDG, IATA)

14.4 Packing group III  
 (ADR, IMDG, IATA)

14.5 Environmental hazards Not classified  
 (ADR, IMDG, IATA)

14.6 Special procedures None  
 (ADR, IMDG, IATA)

14.7 Transport in bulk Not applicable  
 (ADR, IMDG, IATA)



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### Section 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not Applicable

#### 15.2. Chemical Safety Assessment

No data available

### Section 16: Other information

This safety data sheet has been prepared in accordance with Regulations (EC) of the European Parliament Council No 1272/2008 and Commission Regulation (EU) No 453/2010.

The above information is based on present knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification of quality of the product. The user must satisfy himself that the product is entirely suitable for the purpose.

#### Disclaimer

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**Revisions:** This version supersedes all previous versions

Section 2.2 Label Elements – Change in classification

Section 3 composition – Update on classifications

Section 14; addition of transport classification

Minor editorial changes throughout

#### Legend to abbreviations used:

Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC-No.	European Community number
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
TWA	Time Weighted Average
vPvB	Very Persistent and Very Bioaccumulative

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Phrases used in s.2 and s.3:

Full text of H-statements:	
Acute Tox. 4	Acute toxicity, Category 4
Asp. Tox. 1	Aspiration Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq.	Flammable Liquids
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific Target Organ Toxicity – single exposure, Category 3
Aquatic Chronic 2	Long term (chronic) Aquatic Hazard, Category 2
H226	Flammable Liquid and vapour
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.