

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Name:

Symbio BioTabs

1.2 Relevant identified uses

Soil amendment

1.3 Details of Supplier of 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

2. Hazards Identification

2.1 Classification of the mixture:

According to Regulation (EC) No 1272/2008: not classed as hazardous.

2.2 Label elements:

None

Signal Word: None

Hazard Statement(s): None

Precautionary statement(s) (prevention): None

Precautionary statement(s) (response): None

Precautionary statement(s) (disposal): None

2.3 Other hazards

The mixture does not fulfil the criteria for PBT or vPvB substance

The fungi in this mixture are considered to belong to hazard group 1 as defined by the Advisory Committee on Dangerous Pathogens (ACDP) as “a biological agent unlikely to cause human disease”. It should NOT be assumed however, that this organism will be innocuous in all situations or that infections can never occur. The mixture should therefore not be used by, or in the presence of immunocompromised persons.

3. Composition/Information on ingredients

A tablet form of fungal and bacterial spores

Non-classified ingredients

COMPONENT	CAS	PBT/WEL	CLP CLASSIFICATION	%
CITRIC ACID ANHYDROUS POWDER	77-92-9	-	-	30-50%
SODIUM BICARBONATE	144-55-8	-	-	30-50%
ACID BLUE 9	3844-45-9	-	-	<1%

4. First Aid Measures

4.1 Description of first aid measures:

Skin contact: Wash hands after handling. If tablet breaks into powder form, brush off loose particles from skin, and immediately rinse with water. If skin irritation continues, consult a doctor.

Eye contact: Rinse opened eye for at least 15 minutes under running water. If irritation persists, seek medical attention

Inhalation: Unlikely as in tablet form, unless tablet breaks into powder. Remove to fresh air.

Ingestion: Rinse out mouth. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

If tablet breaks into powder form:

Breathing difficulty. Irritant to eyes. Gastric or intestinal disorders

4.3 Indication of any immediate medical attention and special treatment needed:

Follow advice in 4.1

5. Fire Fighting Measures

5.1 Extinguishing media:

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: None.

5.2 Special hazards arising from the mixture:

Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for fire fighters:

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: No further relevant information available.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin and dust formation. Wear suitable protective clothing (overalls) and gloves. Ensure adequate ventilation.

6.2 Environmental Precautions:

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically. Wash away any residue with large amounts of water

6.4 Reference to other sections:

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

7. Handling and Storage

7.1 Precautions for safe handling:

Small volumes of tablets are individually sealed and do not require special handling

Avoid contact with eyes.

Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed. Avoid breathing dust.

Keep out of reach of children

7.2 Conditions for safe storage, including any incompatibilities:

Store in ventilated room.

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions). Do not store together with acids.

Store away from water. Keep receptacle tightly sealed. Protect from humidity and water. This product is hygroscopic.

7.3 Specific End Use:

No further relevant information

The mixture is designed to be diluted with water prior to use. See label for specific instructions

8. Exposure Controls

8.1 Control Parameters:

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls:

8.2.1 Individual Protection Measures, such as personal protective equipment:

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. If tablet breaks into a powder form, do not inhale dust, and use a vacuum cleaner to remove debris.

Engineering controls: No further relevant information available.

Respiratory protection: Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations of powder are present.

Protection of hands: Not required under normal conditions of use

Suitable protective gloves may be worn

Eye protection: Product is in tablet form and eye protection is not required under normal conditions of use.

Suitable safety glasses may be worn. An eye bath should be at hand if there is contact with the eye

Limitation and supervision of exposure into the environment: No further relevant information available.

9. Physical and Chemical Properties

9.1 On basic physical and chemical properties

Form:	Solid Tablet
Colour:	Green/blue
Odour:	Odourless
Odor threshold:	Not Determined
pH-value:	7-8 Dissolved
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	Undetermined
Flash point:	Not Applicable
Flammability (solid, gaseous):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable
Density:	Not determined
Relative density:	Not determined
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with Water:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not applicable
Kinematic:	Not applicable

9.2 Other Information:

No further relevant information available.

10. Stability and Reactivity

10.1 Reactivity:

Stable under normal conditions of use, storage and transport

10.2 Chemical stability:

Stable under normal conditions of use, storage and transport

10.3 Possibility of hazardous reactions:

Heating occurs when water is added. Reacts with strong acids. Reacts with oxidizing agents.

10.4 Conditions to avoid:

Keep away from heat and flames
Avoid Moisture

10.5 Incompatible Materials:

None

10.6 Hazardous decomposition products

None known

11. Toxicological Information

11.1 Information on toxicological effects Mixture:

Non-classified ingredients

CITRIC ACID ANHYDROUS POWDER

ORAL	MUS	LD50	5 040 mg/kg
ORAL	RAT	LD50	3 mg/kg
SCU	RAT	LD50	5 500 mg/kg

Relevant effects for mixture

Acute toxicity: None

Skin corrosion/irritation: None

Serious Eye damage/irritation: None

Respiratory/skin sensitisation: None

Germ cell mutagenicity: None

Carcinogenicity: None

Reproductive toxicity: None

STOT single exposure: None

STOT repeated exposure: None

Aspiration hazard: None

Probable Routes of Exposure: Inhalation. Eye contact. Skin contact. Ingestion.

12. Ecological Information

12.1 Toxicity:

None known

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Result of PBT and vPvB assessment

Not classified as PBT or vPvB substances

12.6 Other adverse effects:

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects: No further relevant information available.

13. Disposal Considerations

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

14. Transport Information

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.6. Special precautions for user

Not regulated for transport
Keep out of reach of children, keep dry, keep away from fire, heat and flame.

14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC code

Not applicable

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the mixture

EU legislation

This substance is classified and labelled in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

The preparation is exempt from REACH requirements (Regulation (EC) No 1907/2006, of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) as the preparation contains biological material and is not a substance.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

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.

Disclaimer

The information in this SDS was obtained from sources which we believe to be reliable. Origin Amenity Solutions provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate handling of the product by properly trained and qualified personnel. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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Revisions: This version supersedes all previous versions
Section 3 Composition – Updated ingredients
Minor editorial changes throughout

Abbreviations and acronyms:

Legend to abbreviations used:

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EINECS	European Community number
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median Lethal Dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WEL	Work-place Exposure Limit