

1. Identification of the Substance and the Company

1.1. Product identifier

Product name Symbio Green Circle
Product number
REACH registration notes Exempt from REACH registration according to Regulation (EC) No. 1907/2006 (REACH)

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

Identified uses A microbial plant growth promoter

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 No. :

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 substance or mixture Classification

Chemical characterization: Mixture
Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

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

2.2. Label elements

None required
Not a hazardous mixture according to Regulation (EC) No. 1272/2008

2.3. Other hazards

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

The bacteria and 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 these organisms 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.

This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008 and in Directive 67/548/EEC. Depending on the type of handling and use, airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust (particles up to 10 microns in size) may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

3. Composition/Information on Ingredients

3.2. Mixtures

A mixture containing bacteria and fungi beneficial to healthy soil and plants. None of the microbes used in these products have been genetically modified.

4. First Aid Measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air and keep at rest. Get medical attention if any discomfort continues.
Ingestion	Rinse out mouth with water and seek medical advice.
Skin contact	Wash hands and exposed skin with soap and water.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms persist.

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

Not expected to present a significant hazard under anticipated conditions of normal use
Severity of symptoms will vary depending on concentration and length of exposure

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

Notes for the doctor	Treat symptomatically.
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5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Not applicable.

5.2. Special hazards arising from the substance or mixture

Specific hazards	None known.
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5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid airborne dust generation, do not breathe dust Keep ignition sources away – no smoking Wear suitable respiratory protection, eye protection gloves and overalls in compliance with national regulation. Avoid contact with eyes and skin Wash hands and exposed skin after handling
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6.2. Environmental precautions

Environmental precautions	No special precautions No known adverse environmental effects. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up Sweep up spills carefully to minimise airborne dust, transfer to suitable container and keep safe for disposal.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and Storage

7.1. Precautions for safe handling

Usage precautions: Read the label before use. Ensure adequate ventilation; or provide appropriate exhaust ventilation. Avoid dust formation, do not breathe dust, in cases of prolonged exposure wear suitable respiratory protective equipment. Employees should wear protective work clothing, shoes, gloves and safety glasses.
General Hygiene: Wash hands after working with product. Do not smoke, eat or drink when handling product.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers in a cool dry and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and high humidity. Minimise airborne dust generation

7.3. Specific end use(s)

Specific end use(s) A microbial plant growth promoter and thatch degrader, for use on sports turf

8. Exposure controls/ Personal protection

8.1. Control parameters Occupational exposure limits

Ingredients with limit values that require monitoring

Name	Product Identifier	Limit value (UK) ¹
Quartz Dust (inhalable) Dust (respirable) Respirable fraction	CAS no: 14808-60-7	10mg/m ³ 8 hours TWA 4mg/m ³ 8 hours TWA 0.1mg/m ³ 8 hours TWA
Urea	CAS no: 330-54-1	10mg/m ³ 8 hours TWA

¹For equivalent limits in other countries, please consult the local regulatory authority

Potash (CAS: 7447-40-7)

DNEL	Workers - Dermal; Long term systemic effects: 580 mg/kg/day Workers - Dermal; short term systemic effects: 580 mg/kg/day Workers - Inhalation; Long term systemic effects: 292 mg/m ³ Workers - Inhalation; Short term systemic effects: 292 mg/m ³
PNEC	- Fresh water; 0.047 mg/l - Marine water; 0.047 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls All handling should only take place in well-ventilated areas.
Eye/face protection Wear eye protection.

Hand protection	Wear protective gloves.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Respiratory protection	In areas with inadequate ventilation wear a dust mask.

9. Physical and Chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Granules.
Colour	Light brown or grey.
Odour	Mild.
Odour threshold	Not determined.
pH	Slightly Alkaline
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Flammability (solid, gas)	The product is not flammable.
Vapour pressure	Not relevant.
Vapour density	Not relevant.
Relative density	Not relevant.
Solubility(ies)	Not known.
Partition coefficient	Not known.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	Not relevant.
Explosive properties	Not relevant.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No information required.
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10. Stability and Reactivity

10.1. Reactivity

No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability	Stable when stored in a dry place.
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10.3. Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid	Strong oxidizing agents, hydrofluoric acid..
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10.6. Hazardous decomposition products

None known.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD50) No specific test data are available.

Acute toxicity - dermal

Notes (dermal LD50) No specific test data are available.

Acute toxicity - inhalation

Notes (inhalation LC50) No specific test data are available. Excessive inhalation of respirable particles (up to 10 micron) over an extended period may result in silicosis of the lung.

Serious eye damage/irritation

Irritation of eyes is assumed. From dusty gritty material.

Respiratory sensitisation

No specific test data are available.

Skin sensitisation

Not determined.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Carcinogenicity

No specific test data are available.

Reproductive toxicity

Reproductive toxicity – fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

12. Ecological information

Ecotoxicity The product is not expected to be toxic to aquatic organisms.

12.1. Toxicity

12.2. Persistence and degradability

The product is partially degradable but has an inert mineral base. The wheat germ substrate is biodegradable. The bacteria and fungi are naturally present in the environment.

12.3. Bioaccumulative potential

Partition coefficient Not expected to bioaccumulate.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Not relevant.

13. Disposal considerations

13.1. Waste treatment methods

General information	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Reuse or recycle products wherever possible. No specific disposal method required.

14. Transport information

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. Regulatory information

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

The preparation is exempt from REACH requirements

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information

This safety data sheet has been prepared with reference to COSHH regulations 2002 (as amended) and workplace exposure limits 2005 (EH40/2005).

Hazard statements in full H272 May intensify fire; oxidizer.

List of abbreviations:

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bio-accumulative
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
WEL: Workplace Exposure Limits
CAS no. Chemical Abstracts Service number
TWA: Time Weighted Average

Indication of revisions:

New company logo
This version supersedes all previous versions

Disclaimer

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