



SAFETY DATA SHEET
SYMBIO THATCHEATER

SDS COMPLETED 2ND SEPTEMBER 2015

VERSION 01
REVISION NUMBER: N/A

1. Identification of the Substance and the Company

1.1. Product identifier

Product name Symbio Thatch Eater
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 preparation for use on sports turf to degrade thatch and convert it to plant food and humic compounds

1.3. Details of the supplier of the safety data sheet

Company name:

Eco Solutions (C&R) Ltd T/a Symbio
Unit 8
Coopers Place
Combe Lane
Wormley
Surrey
GU8 5SZ

Tel: +44 (0) 1428 685762

Fax: +44 (0)1428 685702

Email: info@symbio.co.uk

1.4 Emergency Telephone No. :

Emergency telephone +44 (0) 1428 685762

2. Hazards Identification

2.1. Classification of the substance or mixture Classification

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

2.2. Label elements

Pictogram: none
Signal Word: none
Hazard Statement(s):
None
Precautionary statement(s) (prevention):
P261: avoid breathing dust
P285: in case of inadequate ventilation, wear respiratory protection
P264: Wash hands thoroughly after handling.
P402+404: Store in a dry place. Store in a closed container.
Precautionary statement(s) (response):
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311: If experiencing respiratory symptoms call a doctor/physician.
Precautionary statement(s) (disposal):
P501: Dispose of contents/container in accordance with local regulations

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.
The bacteria and fungi in this mixture are considered to belong to hazard group 1 as defined by the Advisory Committee on



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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.

| | | | |
|-------------------------------------|---------------------|--|------|
| Potassium nitrate | | | 1-5% |
| CAS number 7757-79-1 | EC number 231-818-8 | REACH registration number: 01-2119488224-35-0029 | |
| Classification Ox. Sol. 3 – H272 | | Classification (67/548/EEC or 1999/45/EC) O; R8 | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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

Both acute and delayed: Sensitive individuals may experience breathing difficulties

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: Excessive ingestion may cause feelings of nausea.

Inhalation: Not anticipated under normal conditions of use.

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

Notes for the doctor Treat symptomatically.

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. Wear suitable respiratory protection, eye protection gloves and overalls in compliance with national regulation. Wash hands and exposed skin after handling

6.2. Environmental precautions

Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses.

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 label before use. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes.

Advice on general occupational hygiene
Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in a dry place.

7.3. Specific end use(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

8. Exposure controls/ Personal protection

8.1. Control parameters Occupational exposure limits

Dust (total inhalable) WEL 10 mg/m³ (8hr TWA).
Dust (respirable) WEL 4 mg/m³ (8hr TWA).
Quartz: WEL 0.1 mg/m³
WEL = Workplace Exposure Limit
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/m³
Workers - Inhalation; Short term systemic effects: 292 mg/m³
PNEC
- Fresh water; 0.047 mg/l
- Marine water; 0.047 mg/l
Potassium nitrate (CAS: 7757-79-1)
DNEL
Workers - Dermal; Long term systemic effects: 20.8 mg/kg/day



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PNEC
General Population - Dermal; long term systemic effects: 12.5 mg/kg/day
Workers - Inhalation; Long term systemic effects: 36.7 mg/m³
General Population - Inhalation; long term systemic effects: 10.9 mg/m³
- Fresh water; 0.045 mg/l
- Marine water; 0.045 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 Acidic |
| 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.

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..

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

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.



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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

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

| | |
|--|-----|
| Environmentally hazardous substance/marine pollutant | No. |
|--|-----|

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15. Regulatory information

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

EU legislation
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). 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 (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information

| | |
|---------------------------|------------------------------------|
| Hazard statements in full | H272 May intensify fire; oxidizer. |
|---------------------------|------------------------------------|



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Disclaimer

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