



SAFETY DATA SHEET
SYMBIO HYDROGELS

SDS COMPLETED 8TH JUNE 2015

VERSION 01
REVISION NUMBER: N/A

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

1.1 Product Identifier:

Symbio Hydrogels

1.2 Relevant uses of the substance or mixture and uses advised against:

Supplied for use as water storing granules.

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 number:

Emergency Telephone Number: +44 (0) 1428 685762

2. Hazards identification

2.1 Classification of the substance or mixture

CLASSIFICATION according to Directive EC 1272/2008 Classification, Labelling and Packaging

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

CLASSIFICATION according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation

Not a hazardous substance or mixture according to Directive 1999/45/EC.

2.2 Label Elements

No labelling elements according to Regulation (EC) No. 1272/2008.

2.3 Other Hazards

No information available

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Contains no reportable hazardous substances.

4. First aid measures



SAFETY DATA SHEET SYMBIO HYDROGELS

SDS COMPLETED 8TH JUNE 2015

VERSION 01
REVISION NUMBER: N/A

4.1 Description of first aid measures

4.1.1 Inhalation

Keep patient calm, remove to fresh air and seek medical attention. If unconscious place in recovery position and seek medical advice.

4.1.2 Skin & Eye exposure

Skin: Wash off with soap and water

Eyes: Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if symptoms persist or develop.

4.1.3 Ingestion

Wash out mouth with water and give water to drink. Seek medical attention if symptoms persist or develop.

4.2 Most important symptoms and effects, both acute and delayed

Information not specified.

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

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards arising from the substance or mixture

Thermal decomposition may produce nitrogen oxides (NO_x), carbon oxides (CO_x). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3 Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product swells in water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation. No special protective equipment required. Wash hands thoroughly after handling.

6.2 Environmental precautions

Do not empty into watercourse. Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.



SAFETY DATA SHEET

SYMBIO HYDROGELS

SDS COMPLETED 8TH JUNE 2015

VERSION 01
REVISION NUMBER: N/A

6.4 Reference to other sections

For exposure controls and personal protection see section 8.

7. Handling and storage

7.1 Precaution for safe handling

Use with adequate ventilation. Wash hands thoroughly after working with this product.
Do not eat, drink or smoke while using this product. Aqueous solutions or powders that become wet render surfaces extremely slippery.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place in original labelled closed container.

7.3 Specific end use(s)

Always read the label and product information before use.

8. Exposure controls and personal protection

8.1 Control Parameters

No exposure limits set out in EH40/2005 Workplace exposure limits.

8.2 Exposure controls

Engineering controls:

Ensure adequate ventilation.

Personal protection:

Wear safety glasses with side-shields, protective clothing and protective gloves. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance;	Granular solid or powder
Odour;	Odourless
Odour threshold;	Information not available
pH;	Information not available
Melting/freezing point;	Information not available
Initial boiling point and boiling range;	Information not available
Flash point;	Not applicable
Evaporation rate;	Information not available
Flammability (solid, gas);	Information not available
Upper /lower flammability or explosive limits;	Not expected to create explosive atmospheres
Vapour Pressure;	Information not available
Vapour density;	Information not available
Specific gravity;	Information not available
Solubility (ies);	Information not available
Partition coefficient:	-2



SAFETY DATA SHEET

SYMBIO HYDROGELS

SDS COMPLETED 8TH JUNE 2015

VERSION 01
REVISION NUMBER: N/A

Auto ignition temperature: Not auto-flammable
Decomposition temperature: >150°C

9.2 Other Information

Information not specified

10. Stability and reactivity

10.1 Reactivity

Stable under normal conditions of storage and use.

10.2 Chemical Stability

Stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Information not specified.

10.4 Conditions to avoid

Avoid extremes of temperature.

10.5 Incompatible materials

Strong acids and oxidising agents.

10.6 Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x).

11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity:	LD50/oral/rat >5000mg/kg
Acute dermal toxicity:	LD50/dermal/rat >5000mg/kg
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Not irritating.
Serious eye damage/irritation:	Not irritating.
Respiratory/skin sensitisation:	Not sensitising.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductive toxicity:	Not toxic for reproduction.
STOT – single exposure:	No known effects.
STOT – repeated exposure:	No known effects.
Aspiration hazard:	No known effects.

12. Ecological information

12.1 Toxicity

Acute toxicity to fish:	LC50/Danio rerio/96 hours >100mg/L (OECD 203)
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours >100mg/L (OECD 202)



SAFETY DATA SHEET SYMBIO HYDROGELS

SDS COMPLETED 8TH JUNE 2015

VERSION 01
REVISION NUMBER: N/A

Acute toxicity to algae:	IC50/Scenedesmus subspicatus/72 hours >100mg/L (OECD 201)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	No data available.
Effects on terrestrial organisms:	No known effects.
Sediment toxicity:	No data available.

12.2 Persistence and degradability

Not readily biodegradable. Does not hydrolyse.

12.3 Bioaccumulative potential

Not bioaccumulative.

12.4 Mobility in soil

None.

12.5 Results of PBT and vPvB

Not classified.

12.6 Other adverse effects

None known.

13. Disposal considerations

13.1 Waste Treatment Methods

The product/packaging can be landfilled or incinerated, when in compliance with local regulations.
The product and its packaging are not suitable for recycling.

14. Transport information

14.1 UN number:

No Information available

14.2 UN proper shipping name:

No Information available

14.3 Transport hazard:

No Information available

14.4 Packing group:

No Information available

14.5 Environmental hazards:

Not a marine pollutant



SAFETY DATA SHEET SYMBIO HYDROGELS

SDS COMPLETED 8TH JUNE 2015

VERSION 01
REVISION NUMBER: N/A

14.6 Special precautions for user:

No Information available

14.8 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

No information available

15. Regulatory information

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

This substance/mixture is classified and labelled in accordance with Regulation EC 1272/2008, Directive 1999/45/EC, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical Safety Assessment

CSA not undertaken for this product

16. Other information

SDS information:

This Safety data sheet is compiled using data submitted for raw materials and practical experience.

This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, Regulation 1272/2008 and Annex I of the REACH Regulation 453/2010.

Disclaimer

The information in this SDS was obtained from sources which we believe to be reliable. Symbio 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.

Symbio makes no warranties or guarantees either express or implied with respect to the information contained herein. The conditions or methods of handling, storage, use or disposal of the product are beyond our control, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.