



SAFETY DATA SHEET

SYMBIO LIQUIID HUMIC BOOSTER

SDS COMPLETED 20TH NOVEMBER 2015

VERSION 01

REVISION NUMBER: N/A

1. Identification of the Substance and the Company

1.1. Product identifier

Product name Symbio Humic Booster Liquid
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 Fertiliser

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 statements none.
Precautionary statements none

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

3. Composition/Information on Ingredients

3.2. Mixtures

Humic acids, potassium salts CAS number 68514-28-3 EC number 271-030-1 >10%C<15%*

REACH registration number: 01-2119488224-35-0029

Classification Classification (67/548/EEC or 1999/45/EC)

* Content of humic acid in dry matter

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



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4. First Aid Measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. Get medical attention if symptoms persist.
Ingestion	Wash out mouth with water and seek medical advice.
Skin contact	Wash with plenty of soap and water. Get medical attention if symptoms persist.
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

None.

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	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards In intense heat, product decomposition will release carbon and potassium oxide fumes.

5.3. Advice for Fire-fighters

Protective actions during firefighting	Contain contaminated run-off.
Special protective equipment for firefighters	Wear self-contained breathing apparatus in confined spaces.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, boots, clothing or apron, as appropriate.

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 Mechanically sweep up and place in container for reuse (preferred) or 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 spray 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.



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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

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	No specific recommendations.

9. Physical and Chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Dark brown. or Black.
Odour	Mild.
Odour threshold	Not determined.
pH	9 – 11.5 (10% solution)
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	1.05@ 20°C.
Solubility(ies)	soluble in water
Partition coefficient	Not relevant.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not relevant.
Viscosity	Not relevant.
Explosive properties	Not relevant.
Oxidizing properties	Does not meet the criteria for classification as oxidizing.

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.

10.3. Possibility of hazardous reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

Contact with strong oxidants.

10.5. Incompatible materials

Materials to avoid Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon and potassium combustion products.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD50) rat > 2000mg/kg.

Acute toxicity - dermal

Notes (dermal LD50) rat > 2000mg/kg.

Acute toxicity - inhalation

Notes (inhalation LC50) No specific test data are available.

Skin corrosion/irritation

Notes EU B.4 (rabbit) Not an irritant

Serious eye damage/irritation

Notes EU B.5 (rabbit) Not an irritant

Respiratory sensitization

Notes EU B.42 No specific test data are available.

Skin sensitisation

Notes EU B.42 Not a sensitiser.

Germ cell mutagenicity

EU B12, B13/14, OECD 473 This substance has no evidence of mutagenic properties.

Carcinogenicity

Notes EU B.42 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 considered as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

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



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12. Ecological information

12.1. Toxicity

For Humic acid

LC ₅₀ 24hr Poecilla reticulata	>128 mg/l (NOEC 128mg/l)
LC ₅₀ 96hr Poecilla reticulata	>128 mg/l (NOEC 128mg/l)
LC ₅₀ 24hr Daphnia magna	>116 mg/l (NOEC 116mg/l)
LC ₅₀ 24hr Daphnia magna	>116 mg/l (NOEC 116mg/l)
Algal growth inhibition	n/a
Activated sludge respir'n inhib'n	EC ₅₀ >1000 mg/l

12.2. Persistence and degradability

Persistence and degradability Humic acid is slowly degradable, 2% decomposition within 28 days.

12.3. Bioaccumulative potential

Partition coefficient, soil	log K <1.3 (pH 6.1, 25°C)
Coefficient of distribution	log Pow = -2.16 +- 0.45 (pH 9.1, 23°C).

12.4. Mobility in soil

Mobility soluble in water.

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.



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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

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.

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