



## SAFETY DATA SHEET

### SYMBIO 15-2-15+2Fe+2Mg+SOIL FUNGI AND BACTERIA

SDS COMPLETED 2<sup>ND</sup> SEPTEMBER 2015

VERSION 01  
REVISION NUMBER: N/A

#### 1. Identification of the Substance and the Company

##### 1.1. Product identifier

Product name Symbio 15-2-15+2Fe+2Mg+Soil Fungi and Bacteria  
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](mailto: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 Eye Irrit. 2 - H319  
Environmental hazards Not Classified

##### 2.2. Label elements

Pictogram



Signal word Warning  
Hazard statements H319 Causes serious eye irritation.  
Precautionary statements P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.

##### 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 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.



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### 3. Composition/Information on Ingredients

#### 3.2 Mixtures

SSP Single Superphosphate	10-30%
CAS number: 8011-76-5 EC number: 232-379-5 REACH registration number: 01-2119488967-11-XXXX	
Classification Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi; R41
TSP Triple Superphosphate	1-2.5%
CAS number: 65996-95-4 EC number: 266-030-3 REACH registration number: 01-2119493057-33-XXXX	
Classification Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) Xi; R41
Ferrous Sulphate 18%	5-10%
CAS number: 7720-78-7 EC number: 231-753-5 REACH registration number: 01-2119513203-57-XXXX	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xn; R22. Xi; R36/38

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	Get medical attention if symptoms are severe or persist.
Ingestion	Get medical attention if symptoms are severe or persist.
Skin contact	Get medical attention if symptoms are severe or persist after washing.
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 are severe or persist after washing.

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

Inhalation	Dust in high concentrations may irritate the respiratory system.
Ingestion	No harmful effects expected from quantities likely to be ingested by accident.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation.

#### 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.



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#### 5.2. Special hazards arising from the substance or mixture

Specific hazards            None known.

#### 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 inhalation of dust and contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other surfaces may become slippery.

#### 6.2. Environmental precautions

Environmental precautions

The product is slowly degradable. The product is not expected to be hazardous to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take care as floors and other surfaces may become slippery. Collect and dispose of spillage as indicated in Section 13.

#### 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

Ammonium Sulphate

Long-term exposure limit (8-hour TWA): LTEL 10 mg/m<sup>3</sup>

Ferrous Sulphate 18%

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

Dolomite

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Urea



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Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust : WEL mg/m<sup>3</sup> respirable dust  
 Methylene Urea (Short)  
 Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust  
 Long-term exposure limit (8-hour TWA): WEL 3 mg/m<sup>3</sup> respirable dust  
 Calmag Magnesium Oxide  
 Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust as Mg: WEL 4 mg/m<sup>3</sup> fume and respirable dust as Mg  
 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/m<sup>3</sup>  
 Workers - Inhalation; Short term systemic effects: 292 mg/m<sup>3</sup>

**PNEC** - Fresh water; 0.047 mg/l  
 - Marine water; 0.047 mg/l

### SSP Single Superphosphate (CAS: 8011-76-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 3.1 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 17.4 mg/kg/day  
 General population - Inhalation; Long term systemic effects: 0.9 mg/m<sup>3</sup>  
 General population - Oral; Long term systemic effects: 2.1 mg/kg/day  
 General population - Dermal; Long term systemic effects: 10.4 mg/kg/day

**PNEC** - Fresh water; 1.7 mg/l  
 - Marine water; 0.17 mg/m<sup>3</sup>  
 - Intermittent release; 17 mg/l  
 - STP; 10 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

No specific recommendations.

## 9. Physical and Chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Granules.
Colour	Beige. to Dark brown. or Black.
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.



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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.

##### 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 None known.

##### 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.

##### Serious eye damage/irritation

Irritation of eyes is assumed. In-vitro testing conducted on products with SSP Content <62%, 2015, Result: Reduced classification to Eye Irritant from Eye Damage.

##### 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.



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#### 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.

#### Eye contact

The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.

### 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 slowly degradable.

#### 12.3. Bioaccumulative potential

Partition coefficient Not known.

#### 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

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.



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#### 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	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.
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#### 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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