

SDS COMPLETED 11<sup>TH</sup> JANUARY 2018

VERSION 01  
REVISION NUMBER: N/A

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

**1.1. Product identifier**

Product name	Symbio MycoGro 11-2-14+2.5Mg with Soil Bacteria and Fungi
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
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**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. :**

<b>Emergency phone No.</b>	0800 138 7222 (09.00 – 17.00 GMT Monday – Friday)
<b>National emergency telephone number</b>	111

**2. Hazards Identification**

**2.1. Classification of the substance or mixture Classification**

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Aq chr. 3 - H412

**2.2. Label elements**

Pictogram	None
Signal word	None
Hazard statements	H412 Harmful to aquatic life with long lasting effects
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national 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 Dangerous Pathogens (ACDP) as “a biological agent unlikely to cause human disease”. It should NOT be assumed. However, that this organism 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.

**3. Composition/Information on Ingredients**

**3.2. Mixtures**

SSP Single Superphosphate	5-10%
CAS number: 8011-76-5    EC number: 232-379-5    REACH registration number: 01-2119488967-11-XXXX	
Classification Eye Irrit. 2 -	
Manganese sulphate mono	0.1-0.3%
CAS number 10034-96-5    EC number 232-089-9    REACH registration number: 01-2119456624-35-XXXX	
Classification Eye Dam 1 - H318 STOT RE. 2 - H373 Aq chronic 2 - H411	
Copper Sulphate	0.1-0.3%
CAS number: 7758-99-8    EC number 231-847-6 M factor acute 10    M factor chronic 10	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aq acute 1 - H400 Aq chronic 2 - H410	
Zinc Sulphate mono	0.1-0.3%
CAS number: 7446-20-0    EC number 231-793-3    REACH registration number: 01-2119474684-27-XXXX M factor acute 1    M factor chronic 1	
Classification Acute Tox. 4 - H302 Eye Dam 1 - H318 Aq acute 1 - H400 Aq chronic 2 - H410	

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	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	The product is considered to be a low hazard under normal conditions of use.

**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:** Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

**Special protective equipment for firefighters:** Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents

**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.
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**6.2. Environmental precautions**

Environmental precautions	Harmful to aquatic life with long lasting effects. The product is slowly degradable. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge into drains and the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Use appropriate containment to avoid environmental contamination.
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**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up	Take care as floors and other surfaces may become slippery. Avoid generation and spreading of dust. Collect spillage with a shovel and broom, or similar and reuse, if possible. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations. Do not empty into drains. Collect and dispose of spillage as indicated in Section 13.
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**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 Do not eat, drink or smoke when using this product. 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. Keep container in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

**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>

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

Gypsum  
Long-term exposure limit (8-hour TWA): WEL 0.1 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

Methylene Urea  
Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust : WEL 3mg/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
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**PNEC**

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

Urea (CAS: 57-13-6)

DNEL Consumer - Oral; Long term systemic effects: 42 mg/kg/day  
 Consumer - Oral; Short term systemic effects: 42 mg/kg/day  
 Consumer - Dermal; Long term systemic effects: 580 mg/kg/day  
 Consumer - Dermal; Short term systemic effects: 580 mg/kg/day  
 Industry/Professional - Dermal; Long term systemic effects: 580 mg/kg/day  
 Industry/Professional - Dermal; Short term systemic effects: 580 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 125 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term systemic effects: 125 mg/m<sup>3</sup>  
 Industry/Professional - Inhalation; Short term local effects: 292 mg/m<sup>3</sup>  
 Industry/Professional - Inhalation; Short term systemic effects: 292 mg/m<sup>3</sup>  
 PNEC - Fresh water; 0.47 mg/l  
 - Marine water; 0.047 mg/l

DAP Granular (CAS: 7783-28-0)

DNEL Workers - Inhalation; Long term systemic effects: 6.1 mg/m<sup>3</sup>  
 PNEC - Fresh water; 1.7 mg/l

Copper Sulphate (CAS: 7758-99-8)

DNEL Industry - Oral; Long term systemic effects: 0.041 mg/kg/day  
 Industry - Oral; Short term systemic effects: 0.082 mg/kg/day  
 Zinc Sulphate Monohydrate (CAS: 7446-20-0)  
 DNEL Industry - Inhalation; Long term systemic effects: 1 mg/m<sup>3</sup>  
 Industry - Dermal; Long term systemic effects: 8.3 mg/kg/day  
 Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day  
 Professional - Inhalation; Long term systemic effects: 1.3 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 8.3 mg/kg/day  
 PNEC - Fresh water; 0.0206 mg/l  
 - Marine water; 0.0061 mg/l  
 - Sediment (Freshwater); 235.6 mg/kg  
 - Sediment (Marinewater); 113 mg/kg  
 - Soil; 106.8 mg/kg  
 - STP; 0.0052 mg/l

**8.2. Exposure controls**

Protective equipment



- Appropriate engineering controls
- Eye/face protection
- Hand protection
- Other skin and body protection
- Hygiene measures
- Respiratory protection

- All handling should only take place in well-ventilated areas.
- Wear eye protection.
- Wear protective gloves.
- Wear appropriate clothing to prevent repeated or prolonged skin contact.
- Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
- No specific recommendations.

**9. Physical and Chemical properties**

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

10 Appearance	Granules.
11 Colour	Beige to Dark brown or Black.
12 Odour	Mild.
13 Odour threshold	Not determined.
14 pH	Slightly Acidic
15 Melting point	Not relevant.
16 Initial boiling point and range	Not relevant.
17 Flash point	Not relevant.
18 Evaporation rate	Not relevant.
19 Flammability (solid, gas)	The product is not flammable.
20 Vapour pressure	Not relevant.
21 Vapour density	Not relevant.
22 Relative density	Not relevant.
23 Solubility(ies)	Not known.
24 Partition coefficient	Not known.
25 Auto-ignition temperature	Not relevant.
26 Decomposition Temperature	Not relevant.
27 Viscosity	Not relevant.
28 Explosive properties	Not relevant.
29 Oxidising properties	Does not meet the criteria for classification as oxidising.

**29.1. 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**

<u>Acute toxicity - oral</u>	
Notes (oral LD50)	No specific test data are available.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD50)	No specific test data are available.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC50)	No specific test data are available.
<u>Serious eye damage/irritation</u>	No specific test data are available.
<u>Respiratory sensitization</u>	No specific test data are available.
<u>Skin sensitization</u>	Not determined.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
<u>Carcinogenicity</u>	No specific test data are available.
<u>Reproductive toxicity</u>	
Reproductive toxicity – fertility	Does not contain any substances known to be toxic to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met. Contains Manganese Sulphate Mono - STOT RE2 - Target Organ - Brain. Supplier information: "MnSO <sub>4</sub> is already classified under Directive 67/548/EEC as R48/20/22 and under GHS as STOT RE2. Data exists showing some neurochemical changes at low levels after inhalation exposure for 90 days, together with locomotor changes, around 3mg/m <sup>3</sup> concentration, suggesting that significant toxicity could occur at the 20-200 mg/m <sup>3</sup> concentration level, which supports the current classification of STOT RE 2 for the inhalation route. "
<u>Aspiration hazard</u>	
General information	Not anticipated to present an aspiration hazard, based on chemical structure.
No specific health hazards known..	

**12. Ecological information**

Ecotoxicity	Harmful to aquatic life with long lasting effects. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Contains Copper Sulphate Contains Manganese Sulphate Mono Contains Zinc Sulphate Mono.
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**12.1. Toxicity**

**12.2. Persistence and degradability**

Persistence and degradability	The product is slowly degradable.
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**12.3. Bioaccumulative potential**

Partition coefficient	Not known.
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**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.

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**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.
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Disposal methods	Reuse or recycle products wherever possible. No specific disposal method required.
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**14. Transport information**

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

Hazard statements in full      H412 Harmful to aquatic life with long lasting effects.

**Disclaimer**

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