



**SAFETY DATA SHEET**  
**SYMBIO MYCOGRO 11.0.11+6.6%MgO**

SDS COMPLETED 9<sup>TH</sup> DECEMBER 2019  
UPDATED: 21<sup>ST</sup> FEBRUARY 2020

VERSION 01  
REVISION NUMBER: N/A

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

**1.1. Product identifier**

Product name                      Symbio Mycogro 11-0-11+6.6%MgO with Mycorrhizae and soil microbes  
Product number

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Identified uses                      Fertiliser containing beneficial mycorrhizae, fungi and bacteria

**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**

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

This mixture is not classified as dangerous to humans or the environment.

**2.2. Label elements**

There are no statutory labelling requirements under regulation 1272/2008 and regulation 453/2012.

**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.

**3. Composition/Information on Ingredients**

**3.2. Mixtures**

There are no components at concentrations classified as hazardous according to Directive EC 1272/2008 Classification, Labelling and Packaging.

**4. First Aid Measures**

**4.1. Description of first aid measures**

Eye contact                              Immediately rinse with clean water for 15 minutes. Seek medical attention if symptoms



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Skin contact	persist or develop. Wash exposed areas of skin with soap and water following use. Wash all contaminated clothing before re-use.
Ingestion	wash out mouth with water and seek medical advice.
Inhalation	remove to fresh air.

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

Eye Contact:	Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation.
Skin Contact:	Repeated and/or prolonged contact may cause irritation.
Ingestion:	Based on components, product is considered to present little hazard by oral exposure.
Inhalation:	Unlikely to cause harmful effects under normal handling and use.

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

None  
Additional medical guidance is available to doctors from the National Poisons Information Service.

**5. Fire-Fighting Measures**

Non flammable

**5.1. Extinguishing media**

Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable. As such extinguishing media appropriate for surrounding materials should be chosen.

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

Possible irritant fumes arising from product decomposition.

**5.3. Advice for firefighters**

Contain spread of extinguishing fluids. Wear self-contained breathing apparatus in confined spaces.

**6. Accidental Release Measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Wear protective gloves and eye protection. Wash hands and exposed skin after handling.

**6.2. Environmental precautions**

Do not allow to enter drains or sewers.

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

Sweep up and shovel product or use other means 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**

Ensure good ventilation at workplace. Ensure good hygiene practices are observed. Do not eat, drink or smoke when handling this product. Do not breathe dust. Avoid contact with skin and eyes. Ensure workplace exposure limits are observed. Do not block stack pallets.



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**7.2. Conditions for safe storage, including any incompatibilities**

Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

**7.3. Specific end use(s)**

Fertiliser

**8. Exposure controls/ Personal protection**

**8.1. Control parameters Occupational exposure limits**

**Occupational Exposure Limits**

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust). Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup>, Respirable dust 4 mg/m<sup>3</sup>

Ammonium Sulphate, Long-term Exposure Limit (LTEL) Long-term Exposure Limit (8 hour TWA)	10	mg/m <sup>3</sup>
Sand (Silica Dust respirable), Long-term Exposure Limit (LTEL) Long-term Exposure Limit (8 hour TWA) WEL	0.1	mg/m <sup>3</sup>
Calmag Magnesium Oxide, Long-term Exposure Limit (LTEL) 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, Long-term Exposure Limit (LTEL) 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
<b>Potassium Sulphate (SOP) (CAS 7778-80-5), Desired No Effect Level (DNEL)</b>		
<b>Worker</b>		
Systemic long-term effects dermal:	21.3	mg/kg/day
Systemic long-term effects inhalative:	37.6	mg/m <sup>3</sup>
<b>General Population</b>		
Systemic long-term effects oral:	12.8	mg/kg/day
Systemic long-term effects dermal:	12.8	mg/kg/day
Systemic long-term effects inhalative:	11.1	mg/m <sup>3</sup>
<b>Potassium Sulphate (SOP) (CAS 7778-80-5), Predicted No Effect Concentration (PNEC)</b>		
Fresh water	0.68	mg/L
Marine water	0.068	mg/L
Intermittent release	6.8	mg/L
STP	10	mg/L

**8.2. Exposure controls**

Protective equipment



Gloves: wear protective gloves.

Eye/face protection: wear eye protection.



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Engineering controls: all handling should only take place in well-ventilated areas.  
Clothing: 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	Beige to dark brown granules
Odour	Mild
pH	Slightly Acidic
Boiling point	n/a
Melting point	n/a
Flash point	n/a
Flammability	n/a
Autoflammability	n/a
Explosivity	n/a
Oxidising properties	n/a
Vapour Pressure	n/a
Relative density	n/a
Solubility	n/a
Decomposition temperature	n/a

**9.2 Other information**

None

**10. Stability and Reactivity**

**10.1. Reactivity**

Stable under normal conditions of storage and use

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

Information not available

**10.4. Conditions to avoid**

Extremes of temperature

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

Decomposes at high temperatures producing toxic nitrogen and sulphur oxide fumes.

**11. Toxicological information**

**11.1. Information on toxicological effects Acute toxicity - oral**

Acute toxicity - oral

Notes (oral LD50) No specific test data are available.

Acute toxicity - dermal



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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.  
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**

**12.1. Toxicity**

Not classified as hazardous. Provides nutrients essential to plant growth.

**12.2. Persistence and degradability**

The product is slowly degradable.

**12.3. Bioaccumulative potential**

Not known.

**12.4. Mobility in soil**

No data.

**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**

Disposal route should not permit contamination of groundwater.

**13.1. Waste treatment methods**

Dispose of waste through a reputable waste disposal contractor in accordance with the Environmental Protection Act 1990.

**14. Transport information**



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**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Not a marine pollutant

**14.6. Special precautions for user**

None

**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**

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, 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**

Not undertaken for this material

**16. Other information**

**Reason for revision**

MSDS re-formatted in-line with regulation 453/2010 all sections affected.

**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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