

1. Identification of the Substance and the Company

1.1. Product identifier

Product name	Symbio 5-2-10+1.3Mg organic mini-gran with mycorrhizae and soil microbes
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 containing beneficial mycorrhizae, fungi and bacteria
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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. :

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

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.

3. Composition/Information on Ingredients

3.2. Mixtures

Component	CAS no.	Classification	%
SSP Single Superphosphate	8011-76-5	Eye Irrit. 2 H319	1-5%
Ferrous Sulphate Heptahydrate	7720-78-7	Acute tox 4 H302 Skin Irrit 2 H315 Eye Irrit 2 H319	1-5%

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

Eye contact	Rinse immediately with clean water for 15 minutes. Seek medical attention if symptoms persist or develop.
Skin contact	Wash exposed areas of skin with soap and water following use. Wash all contaminated clothing before re-use.
Inhalation	Remove to fresh air
Ingestion	Wash out mouth with water and seek medical advice.

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
Inhalation	Unlikely to cause harm under normal handling and use.
Ingestion	Considered to present little hazard by oral exposure.

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

None
Additional medical advice is available from national poisons information service

5. Fire-Fighting Measures

Non flammable

5.1. Extinguishing media

Use fire-extinguishing media suitable for the surrounding fire: Foam, Carbon dioxide, dry powder, sand.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.
Possible irritant fumes 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

Personal precautions Avoid inhalation of dust and contact with skin and eyes. Wear suitable protective equipment, including 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

For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and Storage

7.1. Precautions for safe handling

Read label before use. Ensure good ventilation, monitor workplace exposure limits and ensure that limits are observed. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when handling this product

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.

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust). Nuisance dust: Inhalable dust 10 mg/m³, Respirable dust 4 mg/m³.

Ammonium Sulphate

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

Sand (Silica dust respirable)

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³

Dolomite

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Ferrous Sulphate Heptahydrate (CAS: 7720-78-7), Desired No Effect Level (DNEL)

Worker

Dermal; Acute systemic effects: 2.8 mg/kg/day

Dermal; Long term systemic effects: 2.8 mg/kg/day

Inhalation; Acute systemic effects: 9.9 mg/m³

Inhalation; Long term systemic effects: 9.9 mg/m³

General population

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Acute systemic effects oral:	1.4	mg/kg/day
Acute systemic effects dermal:	1.4	mg/kg/day
Acute systemic effects inhalative:	2.5	mg/m ³
Systemic long-term effects oral:	1.4	mg/kg/day
Systemic long-term effects dermal:	1.4	mg/kg/day
Systemic long-term effects inhalative:	2.5	mg/m ³

Ferrous Sulphate Heptahydrate (CAS 7720-78-7), Desired No Effect Level (DNEL)

The PNECs given in this section were derived based on the concentration which would cause a 10% increase above typical natural background levels of iron in soil and sediment. Thus the respective PNEC is equal to 110% of the typical natural background level of iron.

Water

Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in test. Therefore no PNEC was derived.

Sewage Treatment Plants, Sediment and Soil

STP	500	mg/L
Sediment (Fresh Water)	49.5	g/kg
Sediment (Marine Water)	49.5	g/kg
Soil	55.5	g/kg

Oral (food chain)

Iron is an essential trace element for fish, aquatic invertebrates and plants. A direct toxicity could not be demonstrated in tests, therefore no PNEC was derived.

Urea, Long-term Exposure Limit (LTEL)

Long-term Exposure Limit (8 hour TWA) WEL	10	mg/m ³ inhalable dust
Long-term Exposure Limit (8 hour TWA) WEL	4	mg/m ³ respirable dust

Potash (CAS 7447-40-7), Desired No Effect Level (DNEL)

Worker

Systemic long-term effects dermal:	580	mg/kg/day
Systemic long-term effects inhalative:	292	mg/m ³
Systemic short-term effects dermal:	580	mg/kg/day
Systemic short-term effects inhalative:	292	mg/m ³

Potash (CAS 7447-40-7), Predicted No Effect Concentration (PNEC)

Fresh water	0.047	mg/l
Marine water	0.047	mg/m ³

SSP Single Superphosphate (CAS: 8011-76-5) Desired No Effect Level (DNEL)

Worker

Inhalation; Long term systemic effects:	3.1 mg/m ³
Dermal; Long term systemic effects:	17.4 mg/kg/day

General population

Inhalation; Long term systemic effects:	0.9 mg/m ³
Oral; Long term systemic effects:	2.1 mg/kg/day
Dermal; Long term systemic effects:	10.4 mg/kg/day

SSP Single Superphosphate (CAS: 8011-76-5) Predicted No Effect Concentration (PNEC)

Fresh water	1.7 mg/l
Marine water	0.17 mg/m ³
STP	10 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

Appearance	Granules.
Colour	Beige to Dark brown
Odour	Mild, slightly organic
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.
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

Stable under normal conditions of storage and use

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Information not known.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

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

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.

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

The product is not expected to be toxic

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

Partition coefficient Not known.

12.4. Mobility in soil

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

No data

13. Disposal considerations

Do not permit contamination of groundwater

13.1. Waste treatment methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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. 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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Revisions: This version supersedes all previous versions
 Section 3 Composition – Updated ingredients
 Minor editorial changes throughout

Phrases used in s2 and s3.

Full text of H-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.