

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product Name:**

Symbio Recycle

**1.2 Relevant identified uses and uses advised against:**

Rapid improvement in the performance of a waste treatment plant to reduce BOD, COD, Ammonia & Suspended Solids. Not for oral consumption or direct contact with food or beverages

**1.3 Details of Supplier of 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 phone number**

**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 mixture:**

According to Regulation (EC) No 1272/2008: not classed as hazardous

**2.2 Label elements:**

None

Signal Word: none

Hazard Statement(s):

None

Precautionary statement(s) (prevention):

P261: avoid breathing dust

P285: in case of inadequate ventilation, wear respiratory protection

Precautionary statement(s) (response):

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311: If experiencing respiratory symptoms call a doctor/physician.

Precautionary statement(s) (disposal):

P501: Dispose of contents/container in accordance with local regulations

**2.3 Other hazards**

The mixture does not fulfil the criteria for PBT or vPvB substance

The bacteria 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

A mix of Saprophytic micro organisms (Bacillus sp and Pseudomonas spp). Along with free enzymes: Amylases, Proteases, Lipases and Cellulases (<1% w/w) in a dry mix of mineral salts and soya, conforming to EC EFB Class 1 (Not causal agents in human illness).

### 4. First Aid Measures

#### 4.1 Description of first aid measures:

Following aspiration/inhalation:

Move affected person to fresh air, keep person quiet and warm, in case of respiratory failure administer artificial respiration, seek medical attention.

Following skin contact:

Wash affected areas with plenty of water.

Following eye contact:

Remove contact lenses, if present and easy to do. Rinse eyes with water for at least 15 minutes while holding eyelids apart.

After ingestion:

Rinse mouth with water, drink plenty of water. Do not induce vomiting.

#### 4.2 Most important symptoms and effects,

Both acute and delayed: Sensitive individuals may experience breathing difficulties

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Follow advice in 4.1

### 5. Fire Fighting Measures

#### 5.1 Extinguishing media:

Suitable extinguishing media: any extinguishing media may be used but should be appropriate to the cause of the fire and surrounding area. Unsuitable extinguishing media: not applicable

#### 5.2 Special hazards arising from the mixture:

Low degree of risk due to thermal decomposition. May release oxides of carbon if burnt.

#### 5.3 Advice for fire fighters:

Firefighters should be equipped with breathing apparatus appropriate to environmental conditions and wear protective clothing.

### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### 6.1.1 non-emergency personnel

Avoid contact with eyes and skin and dust formation, do not breathe dust. Wear suitable protective clothing (overalls) and gloves.

**6.1.2 Emergency personnel**

See 6.1.1

**6.2 Environmental Precautions:**

No special precautions

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

**6.3.1 Containment:**

No special precautions

**6.3.2 clean-up:**

Avoid creating dust, preferably vacuum clean and collect in suitable labelled containers for waste. Rinse the contaminated area with plenty of water

**6.3.3 Other information relating to spills and releases:**

Not applicable

**6.4 Reference to other sections:**

Personal protective means are given in section 8. Disposal advice is given in section 13.

**7. Handling and Storage**

**7.1 Precautions for safe handling:**

Read the label before use. Avoid dust formation, do not breathe dust. Wash hands after working with product. Do not smoke, eat or drink when handling product. Employees should wear protective work clothing, shoes and gloves.

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

Store in original containers in a cool dry place. Prolonged storage should be in a fridge or deep freeze. Protect from light, raised temperatures and humidity.

**7.3 Specific End Use:**

The mixture is designed to be added to water prior to use. See label for specific instructions

**8. Exposure Controls**

**8.1 Control Parameters:**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls:**

**8.2.1 Appropriate Engineering Controls:**

Work in a well ventilated area. Avoid eating drinking and smoking. Wash hands after use.

**8.2.2 Individual Protection Measures, such as personal protective equipment:**

- a) Eye/face protection. Safety glasses
- b) Skin protection
- Hand protection – rubber gloves

- Other – protective clothing (overalls), and shoes
- c) Respiratory protection – dust mask
- d) Thermal hazards – not applicable

**8.2.3 Environmental exposure controls**

Not applicable

**9. Physical and Chemical Properties**

**9.1 On basic physical and chemical properties**

- |                                  |                             |
|----------------------------------|-----------------------------|
| a) Appearance:                   | Brown powder                |
| b) Odour:                        | Faint Cereal odour          |
| c) Odour threshold:              | not known                   |
| d) pH:                           | 6.5-7.5                     |
| e) melting point/freezing point: | not applicable              |
| f) boiling point:                | not applicable              |
| g) flash point:                  | not applicable              |
| h) evaporation rate:             | not applicable              |
| i) flammability:                 | not applicable              |
| j) explosive limits:             | not applicable              |
| k) vapour pressure:              | not applicable              |
| l) vapour density:               | not applicable              |
| m) relative density:             | 0.85-0.95 g/cm <sup>3</sup> |
| n) solubility in water:          | partially soluble           |
| o) partition coefficient:        | not applicable              |
| p) auto ignition temperature:    | not applicable              |
| q) decomposition temperature:    | not applicable              |
| r) viscosity:                    | not applicable              |
| s) explosive properties:         | not applicable              |
| t) oxidising properties:         | not applicable              |

**9.2 Other Information:**

Explosive properties:	not classified as explosive
Storage temperature:	0-30°C

**10. Stability and Reactivity**

**10.1 Reactivity:**

Beware of following conditions: avoid mixing with chemicals  
Beware of following materials: none

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

Mixing with other chemicals may produce unexpected reactions

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**10.4 Conditions to avoid:**

Do not expose the mixture to humidity and raised temperature

**10.5 Incompatible Materials:**

Avoid contact with strong acids, alkalis and oxidising agents. Avoid contact with moisture as sachets may deteriorate.

**10.6 Hazardous decomposition products May release oxides of carbon during fire.**

**11. Toxicological Information**

**11.1 Information on toxicological effects Mixture:**

- a) Acute toxicity – non toxic
- b) Irritation – not an irritant
- c) Corrosivity – non corrosive
- d) Sensitisation – may cause sensitisation in certain susceptible individuals.
- e) Repeated dose toxicity – non toxic
- f) Carcinogenicity – non carcinogenic
- g) Mutagenicity – non mutagenic
- h) Toxicity for reproduction – non toxic

Information on likely routes of exposure:

Inhalation: may cause mechanical irritation to lungs

Skin: not absorbed through skin

Eyes: dust may cause eye irritation (mechanical)

Ingestion: unlikely to be harmful if swallowed

Symptoms related to related to the physical, chemical and toxicological characteristics:

If inhaled, may cause shortness of breath.

Delayed and immediate effects and chronic effects from short and long term exposure.

If inhaled, may cause shortness of breath

Interactive Effects:

None

Absence of data:

If information is not listed in section 11 it is due to non-availability of data or not appropriate.

Other Information

Not applicable

**12. Ecological Information**

**12.1 Toxicity:**

Not determined

**12.2 Persistence and degradability**

Diammonium phosphate and maltodextrin are biodegradable. The bacteria are naturally present in the environment.

**12.3 Bioaccumulative potential**

Not expected to accumulate



**15.2 Chemical Safety Assessment**

No data available

**16. Other Information**

This safety data sheet has been prepared in accordance with Regulations (EC) of the European Parliament Council No 1272/2008 and Commission Regulation (EU) No 453/2010.

The above information is based on present knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification of quality of the product. The user must satisfy himself that the product is entirely suitable for the purpose.

**Disclaimer**

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