

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

1.1 Product Name:

Symbio Oil Degradar

1.2 Relevant identified uses and uses advised against:

A preparation for hydrocarbon bioremediation. 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. Hazardous component concentration is less than the cut off concentration for hazard declaration

2.2 Label elements:

None

Signal Word: None

Hazard Statement(s): None

Precautionary statement(s) (prevention): None

Precautionary statement(s) (response): None

Precautionary statement(s) (disposal): None

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 powdered mixture of *Bacillus* sp and *Pseudomonas putida* (up to 10%), on a base consisting of diammonium phosphate and maltodextrin

Component	CAS No	CLP Classification	Concentration
Sulphuric acid mono C12-C14 alkyl esters, sodium salts	85586-07-8	Acute Tox. 4: H302; Skin Irrit 2: H315; Eye Dam 1: H318, Aquatic chronic: H412	<1%
Diammonium phosphate	7783-28-0	Not classified	≤60%
Maltodextrin	9050-36-6	Not classified	≤30%

Refer to section 16 for full text of H-statements

4. First Aid Measures

4.1 Description of first aid measures:

Following aspiration/inhalation:

Move affected to 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

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

6.2 Environmental Precautions:

No special precautions

6.3 Methods and material for containment and cleaning 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:

Refer to section 8 for Personal protective equipment. 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 Information on basic physical and chemical properties

- a) Appearance: white powder
- b) Odour: sweet smelling
- c) Odour threshold: not known
- d) pH: 7.0-8.0
- e) melting point/freezing point: no data available
- f) boiling point: not applicable
- g) flash point: no data available
- h) evaporation rate: not applicable
- i) flammability: no data available
- j) explosive limits: no data available
- k) vapour pressure: not applicable
- l) vapour density: not applicable
- m) relative density: 0.7-0.8 g/cm³
- n) solubility in water: soluble
- o) partition coefficient: not applicable
- p) auto ignition temperature: no data available
- q) decomposition temperature: no data available
- r) viscosity: not applicable
- s) explosive properties: no data available
- t) oxidising properties: no data available

9.2 Other Information:

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

10. Stability and Reactivity

10.1 Reactivity:

Stable under normal conditions of use, storage and transport

10.2 Chemical stability:

Stable under normal conditions of use, storage and transport

10.3 Possibility of hazardous reactions:

No hazardous reactions known under normal conditions of use.

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.

May release oxides of carbon during fire

11. Toxicological Information

11.1 Information on toxicological effects Mixture:

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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

12.4 Mobility in soil

Not determined

12.5 Result of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

12.6 Other adverse effects:

Not determined

13. Disposal Considerations

13.1 Waste treatment methods Product:

Use licensed waste disposal company
Contaminated packaging: Dispose of as unused product.

14. Transport Information

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

None

14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC code

Not regulated

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the mixture

The preparation is exempt from REACH requirements as the preparation contains biological material and is not a substance. Diammonium phosphate has no REACH annex xvii restrictions. Maltodextrin has annex iv exemption from obligation to register in accordance with article 2(7) a)
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, amending repealing Directives 67/548/EEC and 199/45/EC and amending Regulation (EC) No 1907/2006 with amendments.

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.

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

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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Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC-No.	European Community number
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Full text of H-statements:

Acute Tox. 4	Acute toxicity, Category 4
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Eye Dam 1	Serious eye damage, Category 1
Aquatic Chronic 3	Long term (chronic) Aquatic Hazard, Category 3
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects