

**SAFETY DATA SHEET****Rhamnolipid**Version 1.1  
Revision Date 6/30/2022  
Print Date 12/6/2023**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifiers**

Product name : Rhamnolipids Biosurfactant

Product Number : RL-P 2225

Brand : 淑丽德®

**1.2 Other means of identification**

No data available

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

For oil exploration, pollution control, soil remediation, agriculture, fodder, etc.

**1.4 Details of the supplier of the safety data sheet**Company : Shaanxi Deguan Biotechnology Co., Ltd.  
A1, Torch Pioneer Park, Free Trade Street,  
Yangling Demonstration Zone, Shaanxi, China

Telephone : +86 29 87037858 +86 151 2922 3785

Fax : +86 29 87037858

E-mail address : sales@sxdgbio.com

**1.5 Emergency telephone number**

Emergency Phone # : +86 29 87037858 +86 151 2922 3785

**2. HAZARDS IDENTIFICATION****2.1 GHS Classification**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**2.2 Other hazards**

none

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Product form**

Mixture.

**3.2 Main ingredients information**The effective content of rhamnolipid is about 25%, The inorganic salt carrier is about 70-75%, and the moisture content is  $\leq 8\%$ .

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#### **4. FIRST AID MEASURES**

##### **4.1 Description of first aid measures**

###### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

###### **In case of skin contact**

Wash off with soap and plenty of water.

###### **In case of eye contact**

Flush eyes with water as a precaution.

###### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

No data available

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#### **5. FIREFIGHTING MEASURES**

##### **5.1 Extinguishing media**

###### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

No data available

##### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

##### **5.4 Further information**

No data available

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#### **6. ACCIDENTAL RELEASE MEASURES**

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

Avoid inhalation.

##### **6.2 Environmental precautions**

The product is biodegradable and does not pose a hazard to the environment, but it is not recommended to direct the high concentration product to the drains and river.

##### **6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

##### **6.4 Reference to other sections**

For disposal see section 13.

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#### **7. HANDLING AND STORAGE**

##### **7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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

No data available

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure Limits

We are not aware of any national exposure limit.

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Use ordinary work clothes, such as ordinary work clothes in the laboratory, and ordinary work clothes in the factory.

##### Respiratory protection

Under normal circumstances, no special protection is required. If you need to filter the odor, you can use ordinary masks or higher-level masks that comply with local regulations.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |   |                                      |
|---|--------------------------------------|
| a) Appearance                                   | White to yellow powder               |
| b) Odor   | Characteristic odor                  |
| c) Odor Threshold                               | No data available                    |
| d) pH   | 7.0-9.0(10% aq.) at room temperature |
| e) Melting point/freezing point                 | No data available                    |
| f) Initial boiling point and boiling range      | No data available                    |
| g) Flash point                                  | No data available                    |
| h) Evaporation rate                             | No data available                    |
| i) Flammability (solid, gas)                    | No data available                    |
| j) Upper/lower flammability or explosive limits | No data available                    |
| k) Relative density                             | 0.3-0.8g/cm <sup>3</sup>             |

l) Water solubility	Soluble in water and organic solvents
m) Partition coefficient: n- octanol/water	No data available
n) Auto-ignition temperature	No data available
o) Decomposition temperature	No data available
p) Oxidative properties	No data available
q) Surface tension	≤35 mN/m
r) Viscosity	No data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Do not use with strong acids or strong bases.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available.

In the event of fire: see section 5.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity test (LD<sub>50</sub>>2000mg/kg) .

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Specific target organ toxicity - single exposure

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	It is harmless to the skin and will not cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**11.2 Additional Information**

RTECS: Not available

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**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

Biodegradability

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION**

**14.1 UN number**

ADR/RID: -

IMDG: -

IATA-DGR: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA-DGR: -

**14.4 Packaging group**

ADR/RID: -

IMDG: -

IATA-DGR: -

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA-DGR: no

**14.6 Special precautions for user**

No data available

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**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Please pay attention on the waste treatment should comply with local regulations requirement.

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**16. OTHER INFORMATION****16.1 Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Deguan Biotechnology and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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