

SAFETY DATA SHEET

Glycolipid

Version 1.0 Revision Date 12/03/2023 Print Date 12/6/2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name Bio-blocking and oil repellent

Product Number : BD-II Brand : $DGBIO^{TM}$

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 displacement in the oil extraction process, improve oil recovery.

1.4 Details of the supplier of the safety data sheet

Company : Shaanxi Deguan Biotechnologyh Co., Ltd.

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Telephone : +86 29 87037858 +86 151 2922 3785

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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 solid content of the effective substance is \ge 25%, the water content is 70-75%, and it contains a small amount of soluble protein and bacterial residue.

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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

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

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.

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



EXPOSURE CONTROLS/PERSONAL PROTECTION 8.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Light yellow to dark brown liquid a) Appearance

Odor Characteristic odor Odor Threshold No data available c)

рΗ 5.0-7.0(10% ag.) at room temperature d)

Melting point/freezing

point

No data available

Initial boiling point and f)

boiling range

No data available

g) Flash point No data available No data available h) Evaporation rate i) Flammability (solid, gas) No data available j) Upper/lower No data available

flammability or explosive limits

Relative density 1.0-1.1g/cm³

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I) 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 ≤40 mN/mr) Viscosity ≤500 mPa•s

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.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity test (LD50>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

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No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin It is harmless to the skin and will not cause skin irritation.

Eyes 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

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

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.

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

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.

16. OTHER INFORMATION

16.1 Further information

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