

## Biyorem BioSorb

Date of SDS : 29.07.2021  
Version No : 1.0Revision Date : -  
SDS No : GBF - 3718

### 1- IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

#### 1.1- Product Identifier:

**Product Name**            **Biyorem BioSorb**

#### 1.2- Relevant identified uses of the substance or mixture and uses advised against:

**Identified uses**            It is a cotton-based cellulose product that absorbs, encapsulates and bioremits oil and petroleum hydrocarbon liquids spilled on absorbent or non-absorbent hard surfaces.**Used advised against** It cannot be used to absorb strong oxidants.

#### 1.3- Details of the supplier of the safety data sheet:

**Company**                    **Biyorem Endüstriyel Ürünler Sanayi ve Ticaret A.Ş.**  
**Address**                    Kömürcüler Mah. 2876 Sokak Yenihurdacılar Koop. No: 10 Döşemealtı/Antalya/Turkey  
**Tel/Fax**                    +90 242 504 60 70  
**E-mail**                     [info@biyorem.com](mailto:info@biyorem.com)

#### 1.4- Emergency telephone number:

+90 242 504 60 70

### 2- HAZARDS IDENTIFICATION

#### 2.1- Classification of the substance or mixture:

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This product does not meet the classification criteria according to the Regulation (EC) No. 1272/2008.

#### 2.2- Label elements (according to EC 1272/2008):

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

This product does not meet the criteria for labelling according to Regulation (EC) No 1272/2008 (CLP).

#### 2.3- Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

### 3- COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1- Substances

Not applicable

#### 3.2- Mixtures

The product is not classified according to the CLP Regulation; It is a mixture of 95-98% cellulosic material (CAS No.: 9004-34-6) obtained from the fibers on cotton core, pH regulator (natural lime) and nutrient.

### 4- FIRST AID MEASURES

#### 4.1- Description of first aid measures

**Inhalation:**

Move person to fresh air. Rinse nose and mouth with water. Remove person to fresh air and keep

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comfortable for breathing. If breathing is difficult, oxygen can be given to the person by properly trained personnel. If the complaint persists, consult a doctor immediately.

**Skin contact:**

Wash skin thoroughly with soap and plenty of water for at least 15 minutes. If skin irritation occurs: Get medical advice.

**Eye contact:**

Carefully rinse eyes with plenty of water, also under the eyelids, for several minutes. Do not rub your eyes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:**

If swallowed, rinse the patient's mouth with clean water. DO NOT induce vomiting. Do not give anything by mouth if unconscious. Consult the doctor.

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

No further data is available.

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

No specific treatment is recommended. Treat symptomatically.

## 5- FIRE FIGHTING MEASURES

**5.1- General**

The product is not flammable. Will burn if involved in a fire.

**5.2- Extinguishing Media****Suitable extinguishing media**

In case of fire, toxic carbon monoxide, carbon dioxide, etc. toxic gases may occur. Avoid breathing gases, vapours, fumes and decomposition products.

**Unsuitable extinguishing media**

No restrictions known.

**5.3- Special hazards arising from the substance or mixture**

Closed containers can burst violently when heated, due to excess pressure build-up. Combustion products include; Carbon monoxide, carbon dioxide, various hydrocarbon fragments as well as thick smoke. Oxides of Sulfur, Phosphorus and Nitrogen may also be formed.

**5.4- Advice for firefighters**

Avoid breathing fire fumes. In the event of a fire, wear a self-contained breathing apparatus suitable for indoor use and full protective clothing. Wear a protective face mask, protective gloves, boots and safety helmet.

## 6- ACCIDENTAL RELEASE MEASURES

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

Do not attempt to intervene without appropriate protective equipment. Avoid contact with skin and eyes. Provide a good ventilation environment. Avoid breathing dust/fume/gas/mist/breathing.

**6.1.1- For non-emergency personnel:**

Keep unnecessary personnel away. Keep people away from spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

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Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2- Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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

Avoid release to the environment. Ventilate the area. Do not allow to enter soil, water or drains.

**6.4- Reference to other sections**

For information on safe handling see section 7, for information on personal protection equipment see section 8, for disposal-related information see section 13.

**7- HANDLING AND STORAGE****7.1- Precautions for safe handling**

Avoid inhalation of dust. Prevent dust formation. Dust that cannot be prevented from forming should be removed regularly. Make sure the work area is well ventilated.

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

Store in a dry and well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. Protect containers from physical damage, excess heat and physical damage. Keep it in its original package.

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

The identified uses for this product are detailed in Section 1.2.

**8- EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1- Control parameters**

Component	OSHA PEL	ACGIH TLV	NIOSH IDLH
Cellulose	(Vacated) TWA: 15 mg/m <sup>3</sup> (Vacated) TWA: 5 mg/m <sup>3</sup> (Vacated) STEL: 10 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>

**Legend**

**ACGIH** - American Conference of Governmental Industrial Hygienists

**OSHA** - Occupational Safety and Health Administration

**NIOSH IDLH**: NIOSH - National Institute for Occupational Safety and Health

**8.2- Exposure controls****8.2.1- Appropriate engineering controls:**

Make sure the working environment is well ventilated. Handle in accordance with industrial hygiene and safety rules. Remove contaminated clothing.

**8.2.2- Individual protective measures, such as personal protective equipment:****Eye/face protection:**

Use safety goggles or face masks that have been tested and approved in accordance with standards such as EN 166 (EU). Contact lenses should not be worn.



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Gloves are not required under normal conditions. If large quantities of raw material are to be handled, it is recommended to wear gloves.

**Body Protection:**

Choose appropriate body protection according to the type, concentration and amount of dangerous substance, and workplace conditions.

**Respiratory protection:**

In case of insufficient ventilation, respiratory protection in accordance with proper EN standards should be used.

**8.2.3- Environmental Exposure Controls**

The provisions of existing legislation for the protection of the environment must be fully implemented.

**9- PHYSICAL AND CHEMICAL PROPERTIES****9.1- Information on basic physical and chemical properties**

Appearance	: Fibrous powder
Colour	: Brown
Odour	: Odourless
Odour threshold	: No data available
pH Value, @ 20°C (Sol'n)	: 4-8
Melting point	: Not applicable
Boiling point	: Not applicable
Flash point (°C)	: Not applicable
Evaporation rate	: Not applicable
Viscosity, mPa's @ 20°C	: Not applicable
Specific weight, gr/cm <sup>3</sup> @ 20 °C	: 0,367
Flammability (solid, gas)	: Not applicable
Upper/lower flammability or explosive limits	: Not applicable
Solubility in water	: Not soluble.
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Explosive properties	: No explosive properties.
Oxidising property	: No oxidizing property.

**9.2- Other information:**

No data available

**10- STABILITY AND REACTIVITY****10.1- Reactivity**

Under normal conditions of use, there are no known hazardous reactions.

**10.2- Chemical stability**

Stable under normal temperature conditions and recommended operating conditions.

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It reacts with a mixture of nitric and sulfuric acid to form cellulose nitrate (a highly flammable substance).

**10.4- Conditions to avoid**

Not available under recommended storage and handling conditions (see section 7).

**10.5- Incompatible materials**

The product reacts with oxidants. May ignite on contact with strong oxidants.

**10.6- Hazardous decomposition products**

Under normal conditions of storage and use, no hazardous decomposition products should be formed.

## 11- TOXICOLOGICAL INFORMATION

**11.1- Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (Single Exposure)**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (Repeated Exposure)**

Based on available data, the classification criteria are not met.

**Aspiration Hazard**

Based on available data, the classification criteria are not met.

## 12- ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.1- Toxicity**

No data available.

**12.2- Persistence and degradability**

No data available.

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No data available.

**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 available.

### 13- DISPOSAL CONSIDERATIONS

**13.1- Waste treatment methods****Residual waste**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14- TRANSPORT INFORMATION

**Product is not classified as dangerous in the meaning of transport regulations (ADR/RID, ADN, IMDG and ICAO/IATA).**

14.1- UN number	Not regulated as dangerous goods.
14.2- UN proper shipping name	Not regulated as dangerous goods.
14.3- Transport hazard class(es)	Not regulated as dangerous goods.
14.4- Packing Group	Not regulated as dangerous goods.
14.5- Environmental hazard	Not regulated as dangerous goods.
14.6- Special precautions for user	None
14.7- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

### 15- REGULATORY INFORMATION

**15.1- Safety, health and environmental regulations/legislation specific for the substance or mixture**

- Regulation (EC) No 1907/2006, (REACH),
- Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006,
- Regulation (EC) No 1272/2008 (CLP),
- Commission Directive 2006/15/EC,
- Commission Directive 2000/39/EC.
- ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**15.2- Chemical safety assessment**

A chemical safety assessment has not been performed for this product.

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### 16- OTHER INFORMATION

#### 16.1- List of abbreviations

ADR	European Agreement Concerning the Int. Carriage of Dangerous Goods by Road
CAS No	Chemical Abstract Service Index Number
CLP	Regulation of Classification, Labelling and Packaging of Chemicals
EC No	European Commission Number
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LD50	Dosage producing 50% mortality
NIOSH	National Institute for Occupational Safety and Health
PBT	Persistent, Bioaccumulative, Toxic
RID	International Rule for Transport of Dangerous Substances by Railway
vPvB	Very Persistent, Very Bioaccumulative

#### 16.2- Other Information:

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Organized by Gultekin Baskoylu (License No: 11544-KDU07)

#### 16.3- Training information

In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

#### 16.4- Sources of information:

- Regulation (EC) No. 1907/2006 (REACH),
- Safety data sheets for raw materials and product components,
- UN ADR, IMDG, IATA lists,
- ECHA and related EU directives,
- Other helpful resources.

#### 16.5- Disclaimer

This information relates to a specific product and is not available for use in combination with any process or with any other material. Do not use on other application(s) without consulting the manufacturer. Information about the product in this Safety Data Sheet has been compiled from knowledge of the individual components. The data given here is based on current knowledge and experience. This Safety Data Sheet analyzes the product in terms of safety requirements and does not give any guarantee of the properties for the product. Usage of the information remains under the sole responsibility of the user.