

Revision Date 06/06/2019  
Date of the previous version --

**SAFETY DATA SHEET**  
Version 1 - EN  
Corbion reference C-R-00353-000 rev 2

## **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

### **1.1. Product identifier**

**Product Name** Encapso®  
**Synonyms** Dried algae  
**REACH Registration Number** Exempted ( Annex V ).

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Recommended Use** Encapsulated lubricant.  
**Uses advised against** For all other applications, contact the supplier beforehand.

### **1.3. Details of the supplier of the safety data sheet**

Corbion Produtos Renováveis Ltda.  
Fazenda Moema, s/n Zona Rural  
Orindiúva - São Paulo 15480-000 Brazil  
seguranca@corbion.com

### **1.4. Emergency telephone number**

Corbion Produtos Renováveis Ltda.  
Tel: +551738169201 (Brazil)  
Tel: +18004249300 (USA)

UK National Health Service (NHS) call 111 or, in life-threatening emergencies, call 999

WAL National Health Service (NHS) call 0845 46 47

IE National Poisons Information Centre  
+353 1 809 2566 or +353 1 837 9964 (only for healthcare professionals)

## **SECTION 2: HAZARDS IDENTIFICATION**

### **2.1 Classification of the substance or mixture**

**Classification according to EU Regulation 1272/2008/EC** Not classified.

### **2.2 Label elements**

None.

### **2.3 Other hazards**

Contact with dust can cause mechanical irritation.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Nature of the product                      Dried algae

Substance name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Registration Number
Dried algal biomass	-	-	100	-	Exempt

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**General advice**                      Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and shoes immediately.

**Eye contact**                         Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Skin contact**                         Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.

**Ingestion**                              Rinse mouth. Get medical attention immediately if symptoms occur.

**Inhalation**                             Move to fresh air. Get medical attention immediately if symptoms occur.

**Protection of first-aiders**         Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

**Main symptoms**                      No acute and delayed symptoms and effects are observed.

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

**Notes to physician**                      Treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable Extinguishing Media**         Dry chemical, CO<sub>2</sub> or water spray.

**Unsuitable Extinguishing Media**         Do not use a solid water stream as it may scatter and spread fire.

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

**Special Hazard**                         None in particular.

#### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters**         Wear self-contained breathing apparatus and protective suit.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Evacuate non-essential personnel. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Use personal protective equipment. For personal protection see section 8. Ensure adequate ventilation.

### 6.2. Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

### 6.3 Methods and material for containment and cleaning up

Avoid dust formation. Wet all spilled material. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water. Use non-sparking tools and equipment.

### 6.4. Reference to other sections

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Prevent contact with skin, eyes and clothing. Provide appropriate exhaust ventilation at places where dust is formed. Ensure adequate ventilation. Wear personal protective equipment. Clean equipment and the work area every day. Keep away from open flames, hot surfaces and sources of ignition.

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

Store in accordance with local regulations. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep away from Incompatible materials. Keep at temperatures below 35°C. Protect from light.

For additional storage advice contact the supplier.

### 7.3. Specific end use(s)

<b>Specific use(s)</b>	Encapsulated lubricant.
<b>Exposure scenario</b>	Not applicable.
<b>Other information</b>	Not available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

<b>Exposure Limits</b>	Contains no substances with occupational exposure limit values. Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust). 10 mg/m <sup>3</sup> (TRGS900)
<b>Biological Limit Values</b>	Not established.
<b>Recommended monitoring procedures</b>	Refer to European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) or equivalent national standard(s). Refer to European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) or equivalent national standard(s). Refer to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) or equivalent national standard(s).
<b>Derived No Effect Level (DNEL)</b>	No information available.
<b>Predicted No Effect Concentration (PNEC)</b>	No information available.

**8.2. Exposure controls**

<b>Appropriate engineering controls</b>	Avoid dust formation. Ensure adequate ventilation, especially in confined areas. Provide appropriate exhaust ventilation at places where dust is formed. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye protection</b>	Safety glasses with side-shields (EN 166)
<b>Hand Protection</b>	Protective gloves
<b>Skin and body protection</b>	Long sleeved clothing.
<b>Respiratory protection</b>	None under normal use conditions. In case of dust formation Wear respiratory protection. In case of insufficient ventilation wear suitable respiratory equipment.
<b>Recommended Filter Type</b>	P2, White
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Regular cleaning of equipment, work area and clothing is recommended.
<b>Environmental Exposure Controls</b>	Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state @20°C</b>	Solid
<b>Appearance</b>	Powder
<b>Colour</b>	Yellow-brownish
<b>Odour</b>	Mild
<b>pH</b>	Not applicable
<b>Melting/freezing point</b>	129.2 °C
<b>Boiling point/boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not Highly flammable
<b>Flammability Limits in Air</b>	No information available
<b>Vapour pressure</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Relative density</b>	No information available
<b>Solubility</b>	
<b>Water solubility</b>	No information available
<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Autoignition temperature</b>	218.0 °C
<b>Decomposition temperature</b>	No information available
<b>Viscosity, dynamic</b>	Not applicable
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Not oxidizing

### 9.2 Other information

<b>Maximum explosion pressure</b>	4.6 ± 10%
<b>Minimum ignition energy</b>	> 1000 mJ

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

None under normal use.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

**Ingestion** No known effect.  
**Skin contact** No known effect.  
**Inhalation** No known effect.

Substance name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dried algal biomass	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 3.31 mg/L (Rat)

**Skin corrosion/irritation** No known effect.

**Serious eye damage/irritation** No known effect

**Respiratory or skin sensitisation** No known effect.

**Germ cell mutagenicity** No known effect.

**Carcinogenicity** No known effect.

**Reproductive toxicity** No known effect.

**STOT-single exposure** No known effect.

**STOT-repeated exposure** No known effect.

**Aspiration hazard** No known effect.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Contains no substances known to be hazardous for the environment.

Substance name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Dried algal biomass		> 240 mg/L (Pimephales promelas)		> 240 mg/L (Daphnia magna)

**12.2. Persistence and degradability**

Readily biodegradable.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

This product is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Waste from residues / unused products** Dispose of in accordance with local regulations. Keep in suitable, closed containers for disposal. Should not be released into the environment.

**Contaminated packaging** Dispose of in accordance with local regulations.

**EWC Waste Disposal No** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, ADN, IMDG, IATA/ICAO.

### 14.1. UN number

Not regulated.

### 14.2. UN proper shipping name

Not regulated.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5 Environmental hazards

Contains no substances known to be hazardous to the environment.

### **IMDG/IMO**

Marine pollutant: No

### 14.6 Special precautions for user

Not applicable.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Restrictions on use** None.

**Other Regulations** No information available.

**Regulation (EC) No. 1907/2006, REACH: This product is exempt from REACH requirements.**

### 15.2 Chemical safety assessment

Not required.

## SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3	Not applicable
Revision Note	Not applicable.
Training Advice	Workers must be trained in the proper use and handling of this product as required under applicable regulations.
Abbreviations and acronyms	EC: European Commission REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances STOT: Specific Target Organ Toxicity PBT: Persistent, Bioaccumulative, Toxic vPvB: very Persistent and very Bioaccumulating ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail) ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) IMDG: International Maritime Dangerous Goods Code ICAO: International Civil Aviation Organization
SDS No.	COA002
Subformat	COEU

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830. Label element according to Regulation (EC) No 1272/2008.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet