

# SAFETY DATA SHEET



according to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council (REACH),  
as amended

## Chlorella vulgaris

Creation date June 18, 2019  
Date of revision Version number 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier 1.1** Substance / mixture Chemical name Other  
Chlorella vulgaris  
substance  
names of the substance  
Chlorella vulgaris  
**Relevant designated**  
INCI chlorella vulgaris Chlorella- green algae

**1.2 uses of the substance or mixture and uses advised against**  
Intended use of the substance  
Unrecommended use of the substance  
The product must not be used in ways other than what they are listed in section 1.  
Chemical Safety Report

**1.3 Details of the supplier of the safety data sheet**  
**Supplier**  
Name or business name Ekokoza s.r.o  
Address Fryčovice 297, Fryčovice, 73945  
Czech Republic  
Identification number (IyO) 07508247  
Phone 605779993  
E-mail obchod@ekokoza.cz  
Website address www.ekokoza.cz  
**E-mail address of the professionally qualified person responsible for the safety data sheet**  
Name Ekokoza s.r.o  
E-mail obchod@ekokoza.cz

**1.4 Telephone number for emergencies**  
Toxicology Information Center, Na Bojišti 1, Prague, Tel.: 224 919 293 or 224 915 402, information only for health risks – acute poisoning of people and animals.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification of the substance according to Regulation (EC) No. 1272/2008**

The substance is not classified as dangerous according to Regulation (EC) No. 1272/2008.

The full text of all classifications and H-phrases is given in section 16.

#### 2.2 Marking elements

none

#### 2.3 Another danger

The substance does not meet the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) No. 1907/2006 (REACH), in force wording.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

##### Chemical characteristics

The substance below.

Identification numbers	Substance name	Content in % weight	Classification according to regulation (EC) no. 1272/2008	Note
	the main component of a substance Chlorella vulgaris			

The full text of all classifications and H-phrases is given in section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid

Take care of your own safety. In case of health problems or in case of doubt, inform the doctor and provide him information from this safety data sheet.

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### When inhaled

Stop the exposure immediately, move the victim to fresh air.

### In contact with skin

Put away the stained clothing.

### On contact with the eyes

Immediately flush the eyes with a stream of running water, open the eyelids (perhaps by force); if the affected person wears contact lenses, remove them immediately.

### When ingested

Rinse your mouth with clean water. In case of difficulties, consult a doctor.

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

### When inhaled

They are not expected.

### In contact with skin

They are not expected.

### On contact with the eyes

They are not expected.

### When ingested

They are not expected.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Fire extinguishers

#### Suitable extinguishing agents

Match the fire extinguishers to the surroundings of the fire.

#### Unsuitable fire extinguishers

not specified

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

In case of fire, carbon monoxide and carbon dioxide and other toxic gases may be produced. Inhalation hazardous decomposition (pyrolysis) products can cause serious damage to health.

### 5.3 Instructions for firefighters

Self-contained breathing apparatus and chemical resistant gloves. Use a self-contained breathing apparatus and a full-body respirator protective suit.

## SECTION 6: Accidental release measures

### 6.1 Personal protection measures, protective equipment and emergency procedures

Follow the instructions in Sections 7 and 8.

### 6.2 Environmental protection measures

Avoid soil contamination and release to surface or ground water.

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

Collect the product mechanically in a suitable way. Dispose of the collected material according to the instructions in section 13.

### 6.4 Reference to Other Sections

See section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use personal protective equipment according to section 8. Observe applicable safety and security legislation health.

### 7.2 Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Store in tightly closed containers in cool, dry and well-ventilated places designated for this purpose.

### 7.3 Specific end/specific end uses

not specified

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

none

#### 8.2 Limiting Exposure

Do not eat, drink or smoke while working. Wash your hands thoroughly with soap and water after work and before breaks for meals and rest.

##### Eye and face protection

It is not necessary.

##### Skin protection

Use protective gloves for prolonged or repeated contact.

##### Respiratory protection

It is not necessary.

##### Thermal hazard

Not listed.

##### Limiting environmental exposure

Observe the usual environmental protection measures, see point 6.2.

### SECTION 9: Physical and chemical properties

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

fine powder appearance	
state color	solid at 20°C green
odor	characteristic, fishy
odor threshold pH melting	the data is not available
point / freezing point initial	the data is not available
boiling point and boiling point range flash point	the data is not available
evaporation	the data is not available
rate flammability	not applicable
(solids, gases) upper/lower flammability or explosive limits	the data is not available
flammability limits	the data is not available
explosion limits	the data is not available
vapor	the data is not available
pressure vapor	the data is not available
density relative density	the data is not available
solubility	
water solubility fat solubility	the data is not available
partition coefficient: n- octanol/water autoignition temperature decomposition	the data is not available
temperature viscosity	the data is not available
explosive properties	the data is not available
oxidizing properties	the data is not available

#### 9.2 More information

density	the data is not available
ignition temperature	the data is not available

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The substance is non-flammable.

#### 10.2 Chemical stability

The product is stable under normal conditions.

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### 10.3 Possibility of hazardous reactions

They are not known.

### 10.4 Conditions to Avoid

Under normal use, the product is stable, does not decompose. Protect from flames, sparks, overheating and from cold.

**10.5 Incompatible materials** Protect from strong acids, bases and oxidizing agents.

### 10.6 Hazardous decomposition products

They do not arise under normal use. At high temperatures and in case of fire, dangerous products such as carbon monoxide and carbon dioxide are formed.

## SECTION 11: Toxicological information 11.1

**Information on toxicological effects** No toxicological data are available for the substance.

### Acute toxicity

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

**Skin corrosion/irritation** Based on available data, the criteria for classification are not met.

**Serious eye damage / eye irritation** Based on available data, the classification criteria are not met.

**Respiratory sensitization / 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.

## SECTION 12: Ecological information 12.1

### Toxicity

#### Acute toxicity

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

**12.2 Persistence and degradability** Data not available.

**12.3 Bioaccumulative potential** Not stated.

### 12.4 Mobility in soil

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Not listed.

### 12.5 Results of PBT and vPvB assessment

The product does not contain substances meeting the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) no. 1907/2006 (REACH), as amended.

### 12.6 Other adverse effects

Not specified.

## SECTION 13: Disposal instructions 13.1 Waste

### management methods Risk of environmental

contamination, proceed according to Act No. 185/2001 Coll. on waste, as amended, and according to implementing regulations on waste disposal. Follow the applicable waste disposal regulations. Place the unused product and the contaminated packaging in marked containers for waste collection and hand it over to an authorized person for waste disposal (a specialized company) that is authorized for this activity. Do not pour the unused product down the drain.

It must not be disposed of together with municipal waste. Empty packaging can be used for energy in a waste incinerator or stored in a landfill of the appropriate classification. Perfectly cleaned packaging can be sent for recycling.

### Legal regulations on waste Act No.

185/2001 Coll., on waste, as amended. Decree No. 383/2001 Coll., on the details of waste management, as amended. Decree No. 93/2016 Coll., (waste catalog), as amended. Decree No. 94/2016 Coll., on the assessment of hazardous waste properties, as amended.

## SECTION 14: Transport information 14.1 UN

### number Not subject to

ADR regulations.

### 14.2 Official (UN) shipping name not given

### 14.3 Transport hazard class(es).

not specified

### 14.4 Packaging group not specified

### 14.5 Environmental hazard not specified

### 14.6 Special precautions for user Reference in sections 4 to 8.

### 14.7 Bulk transport according to Annex II of the MARPOL Convention and the IBC Regulation

not specified

## SECTION 15: Regulatory information 15.1 Safety,

### health and environmental regulations/substance-specific legislation or mixtures

Regulation of the European Parliament and of the Council (EC) No. 1907/2006 of 18 December 2006 on the registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment of Directive 1999/45/EC and on the repeal of the Regulation Council (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of the Regulation (EC) No. 1907/2006, as amended. Act No. 350/2011 Coll., on Chemical Substances and Chemical Mixtures and on Amendments to Certain Acts (Chemical Act). Act No. 258/2000 Coll., on the protection of public health, as amended. Government Regulation No. 361/2007 Coll., which establishes the conditions for health protection at work, as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its detection and on the implementation of some other provisions of the Air Protection Act, as amended. Act No. 185/2001 Coll., on waste and its implementing regulations, as amended. Act No. 201/2012 Coll., on air protection, as amended. Decree No. 432/2003 Coll., which establishes the conditions for classifying work into categories, limit values of biological exposure test indicators, conditions for sampling biological material for conducting biological exposure tests and requirements for reporting work with asbestos and biological agents, as amended.

### 15.2 Chemical safety assessment not given

## SECTION 16: Further information

### Additional information important from the point of view of safety and protection of human health

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number The product may not - without the special consent of the manufacturer/importer - be used for a purpose other than that specified in section 1. User is responsible for compliance with all relevant health regulations.

### Legend to abbreviations and acronyms used in the safety data sheet

ADR	European agreement on the international transport of dangerous goods by road
BCF	Bioconcentration factor
TIME	Chemical Abstracts Service
CLP	Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures
TODAY	The derived level at which no adverse effects occur
EC <sub>50</sub>	The concentration of a substance at which 50% of the population is affected
EINECS	European list of existing traded chemical substances
EmS	Contingency plan
EC	The EC number is the numerical identifier of substances on the EC list
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Hazardous Chemicals in Bulk
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International maritime transport of dangerous goods
INCI	International nomenclature of cosmetic ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance that can be expected to cause the death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance that can be expected to cause the death of 50% of the population
LOAEC	The lowest concentration with an observed adverse effect
LOAEL	The lowest dose with an observed adverse effect
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEC	Concentration with no observed adverse effect
NOAEL	No-observed-adverse-effect dose value
NOEC	Concentration without observed effects
CHRISTMAS	No-observed-effect dose value
NPK	The highest permissible concentration
OEL	Exposure limits in the workplace
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limit
PNEC	An estimate of the concentration at which no adverse effects occur
ppm	Number of particles per million (millionth)
REACH	Registration, evaluation, authorization and restriction of chemical substances
RID	Agreement on the transport of dangerous goods by rail
UN	The four-digit identification number of the substance or article taken from the UN Model Regulations
UVCB	Substance of unknown or variable composition, complex reaction product, or biological material
VOCs	Volatile organic compounds
vPvB	Highly persistent and highly bioaccumulative

### Training Guidelines

Familiarize workers with the recommended method of use, mandatory protective equipment, first aid and prohibited items manipulations with the product.

### Recommended use restrictions

not specified

### Information on data sources used in compiling the safety data sheet

Regulation of the European Parliament and of the Council (EC) No. 1907/2006 (REACH), as amended. Regulation of the European Parliament and of the Council (EC) No. 1272/2008, as amended. Act No. 350/2011 Coll., on chemical substances and chemical mixtures, in force wording. Principles for providing first aid in case of exposure to chemical substances (Doc. Daniela Pelclová, M.D., CSc., M.D. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jijina Fridrichovská, prom. chem.). Data from the manufacturer of the substance/mixture, if available - data from the registration documentation.

### Additional information

Classification procedure - calculation method.

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### Declaration

The safety data sheet contains information to ensure safety and health protection at work and environmental protection. Listed the data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can't be considered as a guarantee of suitability and usability of the product for a specific application.

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Hodiny pro zdraví