

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
names of the substance
Relevant designated
1.2 uses of the substance or mixture and uses advised against
Intended use of the substance
Unrecommended use of the substance
Chemical Safety Report
1.3 Details of the supplier of the safety data sheet
Supplier
Name or business name
Address
Identification number (IĽO)
Phone
E-mail
Website address
E-mail address of the professionally qualified person responsible for the safety data sheet
Name
E-mail
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.

Chlorella vulgaris
substance
Chlorella vulgaris
INCI chlorella vulgaris Chlorella- green algae
The product must not be used in ways other than what they are listed in section 1.
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Fryčovice 297, Fryčovice, 73945
Czech Republic
07508247
605779993
obchod@ekokoza.cz
www.ekokoza.cz
Ekokoza s.r.o
obchod@ekokoza.cz

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

the data is not available

flammability or explosive limits

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-

the data is not available

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 ₅₀	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 ₅₀	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 ₅₀	Lethal concentration of a substance that can be expected to cause the death of 50% of the population
LD ₅₀	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 _{ow}	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 a 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 Peldová, 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.

