

**DENNERLE**

Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)

Printed 21.08.2018

Revision 21.08.2018 (GB) Version 1.2

Carbo Elixir Bio

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

1.1. Product identifier

Name of product

Carbo Elixir Bio

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

Recommended intended purpose(s)

Liquid carbon fertiliser to promote the growth of aquarium plants.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

Dennerle GmbH
Industriestraße 4, D-66981 Münchweiler / Germany
Phone +49 (0)6395-9107-400, Fax +49 (0)6395-9107-401
Internet www.dennerle.com

Advice

Dr. Carsten Gretenkord
Phone +49 (0)6395-9107-3616
Fax +49 (0)6395-9107-1616
E-mail (competent person):
c.gretenkord@dennerle.de

1.4. Emergency telephone number

Emergency advice

Giftnotruf Berlin / POISON CENTER BERLIN / in case of poisoning
Phone +49(0)30-30686 700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Additional hints

This product is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

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

Additional information

Remark

This product does not need to be labelled in line with the Regulation (EC) No.1272/2008 [GHS].

2.3. Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

Aqueous solution of organic carbon compound with minerals and trace elements

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! SECTION 4: First aid measures

4.1. Description of first aid measures

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with water.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

If swallowed by mistake drink plenty of water and seek medical treatment.

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

No information available.

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

! Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid skin and eye contact

For emergency responders

Avoid skin and eye contact

Observe usual precautionary measures for handling chemicals.

6.2. Environmental precautions

not applicable

6.3. Methods and material for containment and cleaning up

Dilute with plenty of water.

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6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

General protective measures

Avoid contact with the eyes.

Hygiene measures

Wash hands before breaks and after work.

Advice on protection against fire and explosion

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Further information on storage conditions

Keep container tightly closed, open and handle carefully.

Protect from frost.

Protect from direct solar radiation.

Protect from heat/overheating.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls

Respiratory protection

not necessary

Hand protection

not necessary

! Eye protection

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Eye protector in case of danger of spillage

Other protection measures

not necessary

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

green

Odour

slightly aromatic

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Carbo Elixir Bio**Odour threshold**

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	2,5	20 °C			
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point	not applicable				
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not applicable				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				
Vapour pressure	not determined				
Relative density	1,05	20 °C			
Vapour density	not determined				
Solubility in water					multimiscible
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not applicable				
Decomposition temperature	not determined				
Viscosity	not determined				
Solids content	< 1 %				
Oxidising properties					
not oxidizing					
Explosive properties					
The product is not explosive					

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Carbo Elixir Bio**9.2. Other information**

no

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions known.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
LD50 acute oral	Due to available data, the classification criteria are not met.			
LD50 acute dermal	Due to available data, the classification criteria are not met.			
LC50 acute inhalation	Due to available data, the classification criteria are not met.			
Skin irritation	non-irritant			
Eye irritation	non-irritant			
Skin sensitization	non-sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				not mutagenic

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Value	Species	Method	Validation
Reproduction-Toxicity			not toxic for reproduction
Carcinogenicity			not cancerogenic
Specific target organ toxicity (single exposure)			
The substance or mixture is not classified as specific target organ toxicant, single exposure.			
! Specific target organ toxicity (repeated exposure)			
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.			
Aspiration hazard			
No classification in relation to aspiration toxicity			

SECTION 12: Ecological information**12.1. Toxicity**

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects**General regulation**

If handled in the appropriate manner, no adverse effects on the environment are known and to be expected.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Recommendations for the product**

Disposal in accordance with local regulations.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent

Water

General information

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

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Carbo Elixir Bio**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-
14.6. Special precautions for user No information available.			
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable			
Transport/further information No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.			

! SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

No information available.

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

! SECTION 16: Other information**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

Further informationAbbreviations and acronyms see overview table at www.euphrac.eu

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

This safety data sheet was compiled by: eska Ingenieurgesellschaft mbH - D-22767 Hamburg, Phone: 040-30 68 17 0, Email: service@eska.eu

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

This SDS was prepared in accordance with the following Regulation (EC) N° 1907/2006 Regulation (EC) N° 1272/2008 Regulation as amended.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.1

! Sources of key data used

Raw material safety data sheets