

MSDS

Material Safety Data Sheet

duplaco® fermented Chlorella liquid 20%

1.

Identification of the substance

1.1. Product identification

Trade name : duplaco® fermented Chlorella liquid 20%

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

Use of the substance : Functional ingredient and feed material

1.3. Details of the supplier of the safety data sheet

Company : Duplaco B.V.
Textielstraat 13
7575 CB Oldenzaal

Telephone : +31742428644

E-mail address : info@duplaco.com

1.4. Emergency telephone number

+31742428644

2.

Hazards identification

2.1. Classification of the substance

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance according to EC-directives 67/548/EEC or 1999/45/EC.

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

No other hazards



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3.

Composition/information on ingredients

3.1. Brief description

Brief description of the product : Algae liquid (*Chlorella Pyrenoidosa*)

3.2. Mixtures

Remarks : No dangerous ingredients

4.

First aid measures

4.1. Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : No first aid measures required

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses.
Protect unharmed eye. Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages. Never give anything
by mouth to an unconscious person.

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

Symptoms : No specific symptoms known.

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

Treatment : Treat symptomatically.



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5.

Firefighting measures

5.1. Extinguishing media

Extinguishing media : Water
Foam

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : None known

5.3. Advice for firefighters

Special protective equipment : None
for firefighters
Further information : None

6.

Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and materials for containment and cleaning up

Sweep up and shovel.

6.4. Reference to other sections

None

7.

Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : No special handling advice required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Do not expose to direct sunlight
The product should be kept dark, cool and in original packing
Advice on common storage : No special restrictions on storage with other products.
Storage temperature : - 20 °C

7.3. Specific end use(s)

Specific use(s) : Not applicable



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8.

Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

| | |
|--------------------------|---|
| Respiratory protection | : No personal respiratory protective equipment normally required. |
| Hand protection | : No personal hand protective equipment normally required. |
| Eye protection | : No personal eye protective equipment normally required. |
| Skin and body protection | : No personal skin and body protective equipment normally required. |
| Hygiene measures | : General industrial hygiene practice. |

9.

Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------------------|
| Appearance | : Liquid |
| Colour | : Dark green |
| Odour | : Characteristic |
| Odour Threshold | : No information available |
| pH | : No data available |
| Melting point/range | : Not determined |
| Boiling point/boiling range | : Not determined |
| Flash point | : Not applicable |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : Not applicable |
| Relative vapor density | : Not applicable |
| Density | : Not determined |
| Water solubility | : Insoluble |
| Solubility in other solvents | : Various organic solvents: insoluble |
| Partition coefficient: n-octanol/water | : Not applicable |
| Auto-ignition temperature | : No data available |
| Thermal decomposition | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |



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9.2. Other information

Bulk density : 700 kg/m³

10.

Stability and reactivity

10.1. Reactivity

No hazards to be specially mentioned

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

No specific conditions.

10.5. Incompatible materials

Oxidizing agents.

Strong acids and strong bases.

10.6. Hazardous decomposition products

No decomposition if used as directed.

11.

Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity : No data available

Skin corrosion/irritation : No data available

Serious eye damage/eye irritation : Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitization : No data available

Germ cell mutagenicity Genotoxicity
in vitro : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

STOT - repeated exposure : No data available

Further information : Due to the nature of the product there is no relevant toxicity expected.



12.

Ecological information

12.1. Toxicity

No data is available on the product itself

12.2. Persistence and degradability

Biodegradability : Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : Not applicable

12.4. Mobility in soil

Distribution among environmental compartments : No data available

12.5. Results of PBT and vPvB assessment

Assessment : No data available

12.6. Other adverse effects

Additional ecological information : There is no data available for this product.

13.

Disposal considerations

13.1. Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.



14.

Transport information

14.1. UN number

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.2. Proper shipping name

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.3. Transport hazard class

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.4. Packing group

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.5. Environmental hazards

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.6. Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available.



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15.

Regulatory information

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

NFPA Classification

: Health hazard: 0

Fire hazard: 1

Reactivity hazard: 0



15.2. Chemical Safety Assessment

Not applicable.



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16.

Other information

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.

Abbreviations: 67/548/EEC= Dangerous Substances Directive. 1999/45/EC= Dangerous Preparations Directive. Regulation (EC) No. 1272/2008= Regulation on classification, labelling and packaging of substances and mixtures. DNEL= Derived No-Effect Level. PNEC= Predicted No Effect Concentration. NFPA= National Fire Protection Association (USA). IATA= International Air Transport Association. IMDG= International Maritime Dangerous Goods. RID= International Rule for Transport of Dangerous Substances by Railway; ADR= European Agreement concerning the International Carriage of Dangerous Goods by Road. TWA= Time Weighted Average. STEL= Short term exposure limit.

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