

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 1 of 10

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

1.1. Product identifier.

Trade name: : TROPICA CARBON NUTRITION 125ml (item number 625)

Substance/mixture: mixture

UFI: YPQ1-R0NC-H00N-85D3

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

1.2.1. Relevant identified uses:

Aquarium plant nutrition supplement.

1.2.2. Uses advised against

Other than the above.

1.3. Details of the supplier of the safety data sheet

Manufacturer

LMSC Spółka z ograniczoną odpowiedzialnością
ul. Piastowska 202, 42-202 Częstochowa, POLAND
NIP5732849134
e-mail: office@yokuchi.com

Supplier

Tropica Aquarium Plants A/S
Mejlbyvej 200, 8250-DK
CVR8737141
www.tropica.com

Competent person responsible for the safety data sheet

name: Marcin Kołodziejczyk

e-mail: marcin.kolodziejczyk@yokuchi.com

1.4. Emergency telephone number

European emergency number: 112

Manufacturer number: +48 535 321 355 (8:00am - 4:00pm CET)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to the Regulation (EC) No 1272/2008:

The mixture is classified as dangerous.

Skin Irrit. 2, H315

Skin Sens. 1A, H317

Eye Irrit. 2, H319

Resp. Sens. 1, H334

STOT SE 3, H335

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 2 of 10

2.2. Label elements

According to the Regulation (WE) 1272/2008:

Pictograms:



GHS 07

GHS 08

Signal word: Danger

Hazardous substances: 1,5-pentanedial

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a doctor.

P405 Store locked up.

P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Component	Classification	Concentration
1,5-pentanedial * Nr CAS 111-30-8 Nr WE 203-856-5 Index Number: 605-022-00-X Registration Number: 01-2119455549-26-XXXX	Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Acute Tox. 2, H330 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 EUH071 Specific concentration limit: STOT SE 3, H335: 0.5 % ≤ C < 5 %	1.89-1.99%

*-Substance of very high concern - SVHC.

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 3 of 10

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Note to physician:

No specific antidote, treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

The selection of appropriate extinguishing agents should take into account the location of the fire and the type of materials involved.

Unsuitable extinguishing media:

Not known.

5.2. Special hazards arising from the substance or mixture

None, product is water-based and not flammable.

5.3. Advice for firefighters

Apply the breathing apparatus and full protective clothing for firefighting.

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 4 of 10

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

Content	Packaging type	Material of package
125 ml	bottle	PET

7.3. Specific end use(s)

not available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 5 of 10

Respiratory protection

Halfmask with a filter against organic vapours in the poorly ventilated environment. In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless, clear
Odour	sligh, characteristic
Melting point/freezing point	aproxx. 0°C
Boiling point or initial boiling point and boiling range	aproxx. 100°C
Flammability	Not flammable
Lower and upper explosion limit	Not determined
Flash point	Not applicable
Auto-ignition temperature	Not determined
Decomposition temperature	>100°C
pH	4.0-5.0
Kinematic viscosity	~1 mPa*s at 25 °C
Solubility	Fully miscible with water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not determined
Density and/or relative density	1.01g/cm ³ at 25 °C
Relative vapour density	Not determined
Particle characteristics	Not determined

9.2. Other information

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 6 of 10

10.6. Hazardous decomposition products Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

Based on the available data, the criteria for classification of the mixture are not met. Data for the components of the mixture are not available.

Tropica Carbon Nutrition 125ml						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	5025 mg/kg	-	-	-	Calculation of value
Inhalation(vapor)	ATE	25.13 mg/l	-	-	-	Calculation of value

Skin corrosion/irritation

Causes skin irritation. Data for the components of the mixture are not available.

Serious eye damage/irritation

Causes serious eye irritation. Data for the components of the mixture are not available.

Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Data for the components of the mixture are not available.

Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 7 of 10

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

12.2. Persistence and degradability

No data are available for either the mixture or the components.

12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: TRANSPORT INFORMATION

Not applicable, product is not classified as dangerous during road, sea, air transport.

14.1. UN number or ID number - not applicable

14.2. UN proper shipping name - not applicable

14.3. Transport hazard class(es) - not applicable

14.4. Packing group - not applicable

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 8 of 10

14.5. Environmental hazards - not applicable

14.6. Special precautions for user - not applicable

14.7. Maritime transport in bulk according to IMO instruments - not applicable

SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. Chemical safety assessment

Chemical safety assessment was not conducted for the product.

SECTION 16: OTHER INFORMATION

A list of standard risk phrases used in the safety data sheet

EUH071 Corrosive to the respiratory tract.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects. Guidelines for safe handling used in the safety data sheet

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a doctor.

P405 Store locked up.

P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 9 of 10

Acute Tox. Acute toxicity
ADR

European agreement concerning the international carriage of dangerous goods by road

Aquatic Acute
Aquatic Chronic

Hazardous to the aquatic environment
Hazardous to the aquatic environment (chronic)

BCF

Bioconcentration Factor

CAS

Chemical Abstracts Service

CLP

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

EC

Identification code for each substance listed in EINECS

EINECS

European Inventory of Existing Commercial Chemical Substances

EmS

Emergency plan

EU

European Union

EuPCS

European Product Categorisation System

Eye Irrit.

Eye irritation

IATA

International Air Transport Association

IBC

International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

ICAO

International Civil Aviation Organization IMDG International Maritime Dangerous Goods

IMO

International Maritime Organization

INCI

International Nomenclature of Cosmetic Ingredients

ISO

International Organization for Standardization

IUPAC

International Union of Pure and Applied Chemistry

log Kow

Octanol-water partition coefficient

OEL

Occupational Exposure Limits

PBT

Persistent, bioaccumulative and toxic

PMT

Persistent, mobile and toxic

Ppm

Parts per million

REACH

Registration, Evaluation, Authorisation and Restriction of Chemicals

Resp. Sens.

Respiratory sensitization

RID

Agreement on the transport of dangerous goods by rail

Skin Corr.

Skin corrosion

Skin Irrit.

Skin irritation

Skin Sens.

Skin sensitization

STOT SE

Specific target organ toxicity - single exposure

UN

Four-figure identification number of the substance or article taken from the UN Model Regulations

UVCB

Substances of unknown or variable composition, complex reaction products or biological materials

VOC

Volatile organic compounds

vPvB

Very persistent and very bioaccumulative

vPvM

Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

TROPICA CARBON NUTRITION 125ml	SAFETY DATA SHEET prepared in accordance with Article 31 of Regulation (EC) 1907/2006 (REACH) and Commission Regulation (EU) 2020/878			
	Version 1.0	Date of issue 01.08.2025r.	Date of revision -	Page 10 of 10

COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers. More information Classification procedure - calculation method.

Changes from the previous version of the safety data sheet: -

The above information is based on currently available data characterizing the product as well as the experience and knowledge possessed by the manufacturer in this topic. It do not constitute a quality description of the product or promise of specific properties. It should be treated as an aid for safe handling during transport, storage and use of the product. This does not release the user from liability for incorrect use of the above information and from compliance with all legal regulations in this area.

END OF SAFETY DATA SHEET
