



Safety data sheet

according to Regulation (EC) No 1907/2006, Annex II

Bombasei BColors | MN powder | „Shade Spirulina-Blue“

Art.-No.: 1000123, 1012003, 1075003

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier:

Bombasei BColors | MN powder | Shade Spirulina-Blue | Article-numbers: see above

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

1.2.1. Relevant identified uses of the substance or mixture:

Foodstuff

1.2.2. Uses advised against:

No information available at present.

1.3. Details of the supplier of the safety data sheet:

BETTEC B.V., Nieuwe Hertogenweg 20, 6291BP Vaals, Netherlands
Qualified person's e-mail address: info@bombasei.de

1.4. Emergency telephone number:

Telephone number of the company in case of emergencies: +49 152 510 36308 (24 h)

2. Hazards identification

2.1. Classification of the substance or mixture:

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2. Label elements:

Labeling according to Regulation (EC) 1272/2008 (CLP):
EUH210-Safety data sheet available on request.

2.3. Other hazards:

The product is capable of causing a dust explosion. (St1)

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006. The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative,

toxic) or is not included under XIII of the regulation (EC) 1907/2006.

3. Composition/information on ingredients

3.1. Substances:

n.a.

3.2. Mixtures:

Chemical Name	CAS No.	EC No.	Hazard Statement	Content %w/w
Citric Acid	77-92-9	201-069-1	Eye Irrit. 2, H319	1 – 2

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

4. First aid measures

4.1. Description of first aid measures:

4.1.1. Inhalation:

Supply person with fresh air and consult doctor according to symptoms.

4.1.2. Skin contact:

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

4.1.3. Eye contact:

Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.1.4. Ingestion:

No special measures required.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

n.c.

5. Firefighting measures

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:
Adapt to the nature and extent of fire.
Water jet spray

5.1.2. Unsuitable extinguishing media:
Foam
Dry extinguisher

5.2. Special hazards arising from the mixture:

In case of fire the following can develop: Oxides of carbon, toxic gases.

5.3. Advice for firefighters:

In case of fire and/or explosion do not breathe fumes.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Avoid build up of dust.
Ensure sufficient supply of air
Avoid contact with eyes or skin.

6.2. Environmental precautions:

If leakage occurs, dam up.

6.3. Methods and material for containment and cleaning up:

Pick up mechanically and dispose of according to Section 13.

6.4. Reference to other sections:

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7. Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1. Precautions for safe handling:

7.1.1. General recommendations:
Avoid build up of dust. Ensure good ventilation.
Avoid contact with eyes. Avoid long lasting or intensive contact with skin.
Observe directions on label and instructions for use.

7.1.2. Notes on general hygiene measures at the workplace:
Wash hands before breaks and at end of work. When stored and used in accordance with the regulations no special precautions are necessary.

7.2. Conditions for safe storage, including any incompatibilities:

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packaging.

Store in a dry place.

7.3. Specific end use(s):

No information available at present.

8. Exposure controls/personal protection

8.1. Control parameters:

General dust limit:

WEL-TWA: 10 mg/m³ (inhal. dust), 4 mg/m³ (respir. dust)

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period)

Citric acid	
Exposure route / Environmental compartment	Descriptor / Value / Unit
Environment - freshwater	PNEC 0,44 mg/l
Environment - marine	PNEC 0,044 mg/l
Environment - sewage treatment plant	PNEC 1000 mg/l
Environment - sediment, freshwater	PNEC 34,6 mg/kg dw
Environment - sediment, marine	PNEC 3,46 mg/kg dw
Environment - soil	PNEC 33,1 mg/kg dw

8.2. Exposure controls:

8.2.1. Appropriate engineering controls:

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Not required in contained systems, as no exposure normally occurs here.

If operational exposure (e.g. repair or maintenance work) cannot be avoided, corresponding protective measures need to be taken.

8.2.2. Individual protection measures, such as personal protective equipment:

Wash hands before breaks and at end of work.


- 8.2.2.1. Eye/face protection:
Normally not necessary. With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).
- 8.2.2.2. Skin protection:
Hand protection: Normally not necessary.
Others: Usual protective working garments.
- 8.2.2.3. Respiratory protection:
Normally not necessary.
If the general dust-limit is exceeded, breathing masks with fine-dust filters are necessary (EN 143), code colour white. If applicable, filter P 2 (EN 143), code colour white. Observe wearing time limitations for respiratory protection equipment.
- 8.2.2.4. Thermal hazards:
Keep away from sources of ignition - No smoking.

- 8.2.3. Environmental exposure controls:
No information available at present.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

- 9.1.1. Appearance:
powder, micronised
- 9.1.2. Colour:
blue
- 9.1.3. Odour:
no off-flavour
- 9.1.4. Odour threshold:
Not determined.
- 9.1.5. pH-value (10%):
< 7
- 9.1.6. Melting point/freezing point:
Not determined.
- 9.1.7. Initial boiling point and boiling range:
Not determined.
- 9.1.8. Flash point:
n.a.

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- 9.1.9. Evaporation rate:
n.a.
- 9.1.10. Flammability (solid, gas):
Not determined.
- 9.1.11. Lower explosive limit:
Not determined.
- 9.1.12. Upper explosive limit:
Not determined.
- 9.1.13. Vapour pressure:
n.a.
- 9.1.14. Vapour density:
Not determined.
- 9.1.15. Density (kg/l):
Not determined.
- 9.1.16. Bulk density:
Not determined.
- 9.1.17. Solubility(ies):
Not determined.
- 9.1.18. Water solubility:
Not determined.
- 9.1.19. Partition coefficient (n-octanol/water):
Not determined.
- 9.1.20. Auto-ignition temperature:
Not determined.
- 9.1.21. Decomposition temperature:
Not determined.
- 9.1.22. Viscosity:
n.a.
- 9.1.23. Explosive properties:
Product does not present an explosion hazard.
- 9.1.24. Oxidising properties:
No.

9.2. Other information:

Miscibility/Fat solubility/Conductivity: Not determined.

10. Stability and reactivity

10.1. Reactivity:

Not to be expected.

10.2. Chemical stability:

Stable with proper storage and handling.

10.3. Possibility of hazardous reactions:

Hazardous reactions will not occur during storage and handling under normal conditions.

10.4. Conditions to avoid:

None known. See also section 7.

10.5. Incompatible materials:

None known. See also section 7.

10.6. Hazardous decomposition products:

No decomposition when used as directed. See also section 5.2.

11. Toxicological information

Possibly more information on health effects, see Section 2.1 (classification).

11.1. Information on toxicological effects of the product:

No data available.

11.2. Information on toxicological effects of ingredients:

Citric acid						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	3000	mg/kg	Rat		
Acute toxicity, by oral route	LD50	5400	mg/kg	Rat	OECD 401 - Acute Oral Toxicity	
Acute toxicity, by dermal route	LD50	>2000	mg/kg	Rat	OECD 402 – Acute Dermal Toxicity	

Skin corrosion/irritation				Rabbit	OECD 404 – Acute Dermal Irritation/ Corrosion	Slightly irritant, not irritant
Serious eye damage/irritation				Rabbit	OECD 405 – Acute Eye Irritation/ Corrosion	Irritant
Respiratory or skin sensitisation						No indications of such an effect
Germ cell mutagenicity					In vitro	Negativ
Carcinogenicity						Negativ
Reproductive toxicity						Negativ
Symptoms						vomiting, cornea opacity, coughing, stomach pain, mucous membrane irritation

12. Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

12.1. Information on environmental effects of the product:

No data available.

12.2. Information on environmental effects of ingredients:

Citric acid							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	440-706	mg/l	Leuciscus idus	OECD 203 Fish, Acute Toxicity	
Toxicity to daphnia	EC50		85	mg/l	Daphnia magna		
Toxicity to algae	EC5		640	mg/l	Scenedesmus		

					quadrica uda		
Persistence and degradability		24h	> 98	%		OECD 302 B – Inherent Biodegradability - Zahn-Wellens/ EMPA Test	
Bioaccumulative potential							Not to be expected.
Toxicity to bacteria	EC5		>10000	mg/l	Pseudomonas putida		
Other information	BOD	5d	526	mg/g			
Other information	BOD5		526	mg/l			References
Other information	COD		728	mg/g			References
Other information			750	mg/g			
Water solubility			605	g/l			Soluble 20°C

13. Disposal considerations

13.1. For the mixture / residual amounts:

EC disposal code no.: 02 03 99 wastes not otherwise specified. The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances (2014/955/EU). Recommendation: Pay attention to local and national official regulations. E.g. dispose at suitable refuse site.

13.2. For contaminated packing material:

Pay attention to local and national official regulations. Recycling.

14. Transport information

Unless specified otherwise, general measures for safe transport must be followed.

14.1. UN-Nummer:

Not applicable.

14.2. UN proper shipping name:

Not applicable.

- 14.3. Transport hazard class(es):**
Not applicable.
- 14.4. Packing group:**
Not applicable.
- 14.5. Environmental hazards:**
Not applicable.
- 14.6. Special precautions for user:**
Not applicable.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**
Non-dangerous material according to Transport Regulations.

15. Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the mixture:**
For classification and labelling see Section 2.
Observe restrictions: Comply with trade association/occupational health regulations.
Directive 2010/75/EU (VOC): 0%
Water pollution class 1 (German law; self-assessment, VwVwS)
- 15.2. Chemical safety assessment:**
There is no chemical safety report available. A chemical safety assessment is not provided for mixtures.

16. Other information

These details refer to the product as it is delivered.

Revised sections: /

Classification in accordance with regulation (EC) No. 1272/2008 (CLP): Not applicable.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents specified in Section 2 and 3):


H319 Causes serious eye irritation.

Eye Irrit. - Eye irritation

Any abbreviations and acronyms used in this document:

- ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
- BOD: Biochemical oxygen demand
- CAS: Chemical Abstracts Service
- CLP: Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
- COD: Chemical oxygen demand
- DMEL: Derived Minimum Effect Level
- DNEL: Derived No Effect Level
- Dw: dry weight
- e.g.: for example (abbreviation of Latin 'exempli gratia'), for instance
- EC: European Community
- ECHA: European Chemicals Agency
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- EN: European Norms
- EPA: United States Environmental Protection Agency (United States of America)
- ES: Exposure scenario
- etc.: et cetera
- EU: European Union
- EWC: European Waste Catalogue
- Fax.: Fax number
- gen.: general
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA: International Air Transport Association
- IBC: Intermediate Bulk Container
- IBC (Code): International Bulk Chemical (Code)
- IC: Inhibitory concentration
- IMDG-code: International Maritime Code for Dangerous Goods
- incl.: including, inclusive
- LC: lethal concentration
- LC50: lethal concentration 50 percent kill
- LCLo: lowest published lethal concentration
- LD: Lethal Dose of a chemical
- LD50: Lethal Dose, 50% kill
- LDLo: Lethal Dose Low

- LOAEL: Lowest Observed Adverse Effect Level
- LOEC: Lowest Observed Effect Concentration
- LOEL: Lowest Observed Effect Level
- LQ: Limited Quantities
- MARPOL: International Convention for the Prevention of Marine Pollution from Ships
- n.a.: not applicable
- n.av.: not available
- n.c.: not checked
- n.d.a.: no data available
- no.: number
- NOAEC: No Observed Adverse Effective Concentration
- NOAEL: No Observed Adverse Effect Level
- NOEC: No Observed Effect Concentration
- NOEL: No Observed Effect Level
- OECD: Organisation for Economic Co-operation and Development
- org.: organic
- PBT: persistent, bioaccumulative and toxic
- PNEC: Predicted No Effect Concentration
- Ppm: parts per million
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
- RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
- Tel.: Telephone
- ThOD: Theoretical oxygen demand
- TRGS: Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
- VOC: Volatile organic compounds
- vPvB: very persistent and very bioaccumulative
- VwVwS: „Verwaltungsvorschrift wassergefährdender Stoffe“, administrative Regulation on Substances Hazardous to Waters
- WEL-TWA, WEL-STEL: WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).



Note: The particulars given in this safety data sheet only apply to the described product in connection with its appropriate utilization. The document is based on the latest state of our knowledge and information. In particular, it serves the purpose of describing the product under the aspect of hazards caused by such product and pertaining safety actions. For detailed information regarding product characteristics, please see BETTEC / Bombasei BColors.

Date: 01.01.2023