

SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 15, 2017 Revision Date: Aug 15, 2017

	Revision Date. Aug 15, 2017
1.Identification	
1.1GHS Product ident	ifier
Product name	Phycocyanin
1.20ther means of ide	ntification
Product number	-
Other names	Phycobilisome protein
1.3Recommended use	of the chemical and restrictions on use
Identified uses	For industry use only.
Uses advised against	no data available
2.Hazard identification	n
2.1Classification of the	e substance or mixture
no data available	
2.2GHS label elements	s, including precautionary statements
Pictogram(s)	no data available
Signal word	no data available
Hazard statement(s)	no data available
Precautionary	
statement(s)	
Prevention	no data available
Response	no data available
Storage	no data available
Disposal	no data available
2.30ther hazards which	ch do not result in classification

no data available

3.Composition/information on ingredients

3.1Substances

Phycocyanin Phycocyanin 11016-15-2	none	100%

4.First-aid measures

4.1Description of necessary first-aid measures

General advice



Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

5.Fire-fighting measures

5.1Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2Specific hazards arising from the chemical

no data available

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling



Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8.Exposure controls/personal protection 8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3Individual protection measures, such as personal protective equipment (**PPE**)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9.Physical and chemical properties		
Physical state	no data available	
Colour	Blue white	
Odour	Characteristic odour	
Melting point/ freezing	no data available	
point		



Boiling point or initial	no data available
boiling point and boiling	
range	
Flammability	no data available
Lower and upper	no data available
explosion limit /	
flammability limit	
Flash point	no data available
Auto-ignition	no data available
temperature	
Decomposition	no data available
temperature	
рН	no data available
Kinematic viscosity	no data available
Solubility	Water soluble
Partition coefficient	no data available
n-octanol/water (log	
value)	
Vapour pressure	no data available
Density and/or relative	no data available
density	
Relative vapour density	no data available
Particle characteristics	no data available
10 Stability and was stimit	L

10.Stability and reactivity

10.1Reactivity

no data available

10.2Chemical stability

Stable under recommended storage conditions.

10.3Possibility of hazardous reactions

no data available

10.4Conditions to avoid

no data available

10.5Incompatible materials

no data available

10.6Hazardous decomposition products

no data available

11.Toxicological information

Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available



Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12.Ecological information

12.1Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

12.2Persistence and degradability

no data available

12.3Bioaccumulative potential

no data available

12.4Mobility in soil

no data available

12.50ther adverse effects

no data available

13.Disposal considerations 13.1Disposal methods



Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information		
14.1UN Number		
ADR/RID: no data available	IMDG: no data available	IATA: no data available
14.2UN Proper Shipping Nat	me	
ADR/RID: no data available		
IMDG: no data available		
IATA: no data available		
14.3Transport hazard class(es)	
ADR/RID: no data available	IMDG: no data available	IATA: no data available
14.4Packing group, if application	able	
ADR/RID: no data available	IMDG: no data available	IATA: no data available
14.5Environmental hazards		
ADR/RID: no	IMDG: no	IATA: no
14.6Special precautions for u	iser	
no data available		

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

no data available

15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Phycocyanin	Phycocyanin	11016-15-2	none
European Inventory of Existing Commercial Chemical Substances (EINECS)		Listed.	
EC Inventory		Listed.	
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.



Chinese Chemical Inventory of Existing Chemical Substances (China

IECSC)

Not Listed.

16.Other information

Information on revision

Creation Date	Aug 15, 2017
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Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%