

## Material Safety Data Sheet

### Spirulina Extract (Phycocyanin )

#### Section 1: Chemical Product and Company Identification

**Product Name:** Spirulina extract

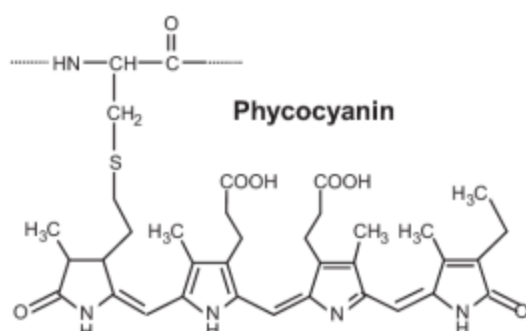
**CAS#:** 11016-15-2

**Synonym:** blue spirulina, phycocyanin

**Application:** Natural food colouring, Functional ingredient, Cosmetic additive

**Use Restrictions:** Unrestricted

**Chemical Formula:**



**Contact Information:** ZHEJIANG BINMEI BIOTECHNOLOGY CO.,LTD

Add: No.5 Beiyang 9th Road ,Toumen Port ,Linhai ,Zhejiang 317015, China

Tel: +86-576-89395153

#### Section 2: Hazard(s) Identification

**Potential Acute Health Effects:** Slightly hazardous in case of eye contact (irritant), or inhalation (irritant). Non-hazardous in case of ingestion, or skin contact.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

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TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical conditions.

### Section 3: Composition and Information on Ingredients

**Composition: Name CAS # % by Weight**

Please contact BINMEI for detailed information..

**Toxicological Data on Ingredients:** Not a hazardous material under the Department of Labor definitions.

### Section 4: First- Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Coldwater may be used. WARM water MUST be used. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:** Not available.

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**Risks of explosion of the product in presence of mechanical impact:** Not available.

**Risks of explosion of the product in presence of static discharge:** Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** As with most organic solids, fire is possible at elevated temperatures.

**Special Remarks on Explosion Hazards:**

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

## Section 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilt solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of it according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7: Handling and Storage

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust.

**Storage:** Keep the container tightly closed. Keep the container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator, gloves or equivalent.

**Personal Protection in Case of a Large Spill:**

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Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid.

**Odor:** Characteristic. Seaweed-like (Slight.)

**Taste:** Not available.

**Molecular Weight:** 40KD

**Color:** Blue

**pH (1% soln/water):** 6.5

**Boiling Point:** Not available.

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Very soluble in cold water. Not soluble in organic solvents such as ethanol.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat

**Incompatibility with various substances:** Not available.

**Corrosivity:** No corrosion.

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**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Inhalation, Ingestion.

**Toxicity to Animals:** LD50: Mice were orally fed more than 33g/kg (BW) (Guangdong food hygiene supervision and Inspection Institute)

**LC50:** Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Slightly hazardous in case of eye contact (irritant), of inhalation (irritant). Non-hazardous in case of ingestion, or skin contact.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

Skin: May cause skin irritation by mechanical action.

Eyes: May cause eye irritation by mechanical action.

Inhalation: Dust may cause respiratory tract irritation.

Ingestion: Not expected to be toxic by ingestion.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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## Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** The cargo is not restricted by air cargo and has no UN number.

## Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: No products were found.

**Other Regulations:** Not available.

**Other Classifications:**

**WHMIS (Canada):** Controlled under WHMIS (Canada).

**DSCL (EEC):** This product is classified according to EU regulations. Not applicable.

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

**Specific Hazard:**

**Protective Equipment:** Gloves lab coat Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety gassed.

## Section 16: Other information

**References:** YES

**Version:** 18-01

**Validated on 02/01/2018**

**Other Special Considerations:** Not available.

**Inspection Methods and Procedures:** IATA Dangerous Goods Regulations(DGR) 59th Edition.

**Identification conclusion:**

**1.Hazards identification:** None.

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**2.Suggestion according to IATA DGR:** The substance is not subject to IATA DGR.

**3.Packaging requirements:** None.

**Notice to reader:** The information mentioned above is expected to be correct, representing the current level. But we don't guarantee that it is safe and reliable. The customer must make investigated to make sure of its avaiablity, we will not be able to compensate for any losses, even if the customer or third party has been advised of the possibility of loss, they may be affected by the third party.