



Document: SH2170-A
Release date: Aug 18, 2024

Applies to part numbers:
SH2170-10,SH2170-100,SH2170-600

Section 1 Product and Company Identification

Product code: SH2170 Product name: Native SHC protein (Shrimp Hemocyanin, Non-Activated, KLH substitution)

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, USA

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

Section 2 Hazards Identification

EMERGENCY OVERVIEW:

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

HMIS RATING

| | |
|--------------|---|
| HEALTH | 0 |
| FLAMMABILITY | 0 |
| REACTIVITY | 0 |

For additional information on toxicity, please refer to Section 11.

Section 3 Composition/ Information on Ingredients

Substances Shrimp Hemocyanin Protein

Section 4 First Aid Measures

ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician.
INHALATION EXPOSURE If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
DERMAL EXPOSURE In case of contact, wash skin with water.
EYE EXPOSURE In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Section 5 Fire Fighting Measures

FLASH POINT N/A

AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

EXTINGUISHING MEDIA

Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Not suitable No information available

FIREFIGHTING Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 Accidental Release Measures

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| PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES | Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. |
| ENVIRONMENTAL PRECAUTIONS | No special environmental precautions required. |
| METHODS AND MATERIAL FOR CONTAINMENT | Soak up with inert absorbent material. |

Section 7 Handling and Storage

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|---------------|---|
| SAFE HANDLING | Use personal protective equipment as required. No special handling advices are necessary. |
| SAFE STORAGE | Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations. |

Section 8 Exposure Controls / Personal Protection

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|------------------------------------|---|
| PERSONAL PROTECTIVE EQUIPMENT | |
| Respiratory | In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards. |
| Hand | Wear suitable gloves. Glove material: Compatible chemical-resistant gloves. |
| Eye | Tight sealing safety goggles. |
| Skin and Body | Wear suitable protective clothing. |
| GENERAL HYGIENE MEASURES | Wash thoroughly after handling. |
| ENVIRONMENTAL EXPOSURE CONTROLS | No special environmental precautions required. |

Section 9 Physical and Chemical Properties

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|---------------------------|--------------------------------|
| Appearance Physical State | Off-white to light blue powder |
| Solvent Content | N/A |

Section 10 Stability and Reactivity

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|-------------------------------------|---|
| STABILITY | Stable under normal conditions. |
| Materials to Avoid | Strong oxidizing agents, metals, acids. |
| HAZARDOUS DECOMPOSITION PRODUCT | |
| Hazardous Decomposition Products | No dangerous decomposition products known |
| HAZARDOUS POLYMERIZATION | |
| Hazardous Polymerization | No data available. |

Section 11 Toxicological Information

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| ROUTE OF EXPOSURE | |
| Skin Contact | May cause skin irritation. |
| Skin Absorption | May be harmful if absorbed through the skin. |
| Eye Contact | May cause eye irritation. |
| Inhalation | Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. |
| Ingestion | May be harmful if swallowed. |

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 Ecological Information

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|------------------------------------|---|
| Toxicity | The environmental impact of this product has not been fully investigated. |
| Persistence and degradability | No further relevant information available. |
| Bioaccumulative potential | No further relevant information available. |
| General notes | Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. |
| Results of PBT and vPvB assessment | No information available. |

Section 13 Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14 Transport Information

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| IATA / ADR / DOT-US / IMDG | Not regulated in the meaning of transport regulations. |
| Environmental hazards | N/A |
| Special precautions for user | N/A |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | N/A |

Section 15 Regulatory Information

US FEDERAL REGULATIONS

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| SARA 313 | This product is not regulated by SARA. |
| Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) | This product does not contains HAPs. |

US STATE REGULATIONS

| | |
|---------------------------|---|
| California Proposition 65 | This product does not contain any Proposition 65 chemicals. |
| WHMIS Hazard Class | Non-controlled |

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16 Other Information

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|------------------------|-------------|
| Date of last revision: | Aug 18,2024 |
|------------------------|-------------|

The information provided herein has been obtained through diligent research and analysis. The recommendations are based upon the prudent application of professional judgment. This information is not intended to be exhaustive and should be used as a general guideline. All materials and mixtures may present potential hazards, and should be handled with care. As the Company cannot control the specific methods, quantities, or conditions of use, it shall not be liable for any damages or losses resulting from the handling or contact with the product as described herein.

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End of Safety Data Sheet