Order

Number

SAFETY DATA SHEET



Customer Number

#### Identification of the substance/preparation and of the company/undertaking 1. **DNP-Hemocyanin Conjugate, Keyhole Limpet** : 324121 **Product name** : Catalog # Supplier : Manufactured by EMD Biosciences, Inc. 10394 Pacific Center Court **Chemical formula** : N/A San Diego, CA 92121 (858)450-5558/(800)854-3417 FAX: (858)453-3552 : DNP-KLH Synonym : Call Chemtrec® Emergency telephone number (800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.) Composition / information on ingredients 2. Substance/Preparation : Substance Chemical name\* CAS No. EC Number **R-Phrases** Symbol DNP-KLH N/A Not available. Hazards identification 3. Physical/chemical hazards : Not applicable. 4. First-aid measures **First-Aid measures** Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. : Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an Ingestion : 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. In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold **Skin Contact** : water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. **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. Cold water may be used. Get medical attention. Aggravating conditions : Repeated or prolonged exposure is not known to aggravate medical condition. 5. Fire-fighting measures **Flammability of the Product** : May be combustible at high temperature. **Extinguishing Media** Suitable : SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Hazardous thermal (de)composition : These products are nitrogen oxides (NO, NO2...). products **Special fire-fighting procedures** : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

#### Accidental release measures 6. : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a **Personal precautions** specialist BEFORE handling this product. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Small Spill and Leak Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading Large Spill and Leak water on the contaminated surface and allow to evacuate through the sanitary systen 7. Handling and storage Handling : Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. : Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 4°C (39.2°F). Storage **Packaging materials** : Use original container. **Recommended use** Exposure controls/personal protection 8. **Engineering measures** : 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. : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day. **Hygiene measures** Ingredient Name **Occupational Exposure Limits** DNP-Hemocyanin Conjugate, Keyhole Limpet Not available. <u>Personal protective equipment</u> Skin and body : Lab coat. Eyes Safety glasses. **Protective Clothing** (Pictograms)

# 9. Physical and chemical properties

Physical state	olid.	
Color	ellow.	
Molecular Weight	ot available.	
Solubility	sily soluble in cold water.	
Flash point	ot available.	
Explosive properties	sks of explosion of the product in presence of mechanical impact: Not available. sks of explosion of the product in presence of static discharge: Not available.	

# 10. Stability and reactivity

Stability	:	The product is stable.
Conditions to avoid	:	Not available.
Hazardous Decomposition Products	:	These products are nitrogen oxides (NO, NO2).

# 11. Toxicological information

RTECS #	: N/A
Local effects	
Skin irritation	: Not available.
Acute toxicity	: LD50: Not available. LC50: Not available.
Chronic toxicity	: Repeated or prolonged exposure is not known to aggravate medical condition.
Other Toxic Effects on Humans	<ul> <li>Not available.</li> <li>No specific information is available in our database regarding the other toxic effects of this material for humans.</li> </ul>
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 Not available.
 To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

 Carcinogenic effects
 : Not available.

 Mutagenic effects
 : Not available.

 Reproduction toxicity
 : Not available.

 Teratogenic effects
 : Not available.

### **12.** Ecological information

Ecotoxicity

: Not available.

Toxicity of the Products of : The product itself and its products of degradation are not toxic.

# Biodegradation

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging

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

## 14. Transport information

International transport regulations	
Land - Road/Railway	
ADR/RID Class	: Not controlled under ADR (Europe).
<u>Sea</u>	
IMDG Class	: Not controlled under IMDG.
Air	
IATA-DGR Class	: Not controlled under IATA.
Special Provisions for	Not applicable.
Transport	

### 15. Regulatory information

EU Regulations	
<b>Risk Phrases</b>	: This product is not classified according to the EU regulations.
<u>U.S. Federal Regulations</u>	<ul> <li>TSCA: No products were found.</li> <li>SARA 302/304/311/312 extremely hazardous substances: No products were found.</li> <li>SARA 302/304 emergency planning and notification: No products were found.</li> <li>SARA 302/304/311/312 hazardous chemicals: No products were found.</li> <li>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.</li> <li>SARA 313 toxic chemical notification and release reporting: No products were found.</li> <li>Clean Water Act (CWA) 307: No products were found.</li> </ul>
	Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.
<b>HCS Classification</b>	: Not controlled under the HCS (United States).
State Regulations	:
WHMIS (Canada)	: Not controlled under WHMIS (Canada). No products were found.

# 16. Other information

Hazardous Material Information System (U.S.A.)	Health Fire Hazard Reactivity	0 1 0	National Fire Protection Association (U.S.A.)	Health 🔦	Fire Hazard Reactivity
	Personal Protection	Α			Specific Hazard

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Notice to Reader

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To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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