

## **MSDS - MATERIAL SAFETY DATA SHEET**

Date: 09/19/2009  
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Version 1.0

### **Product and Company Information**

**INCI name:** Water (and) Butylene Glycol (and) Biotinyl Tripeptide-1  
Product Number: RS3.6  
Company: RS Synthesis LLC  
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### **Product Composition**

**TRADE name:** Biotinyl-GHK Solution  
Sequence: Biotin-GHK  
Purity: >85% (peptide)  
Concentration: 10ppm in 50:50 Solution of DI Water:Butylene Glycol  
Chemical Family: Bioactive peptide solution.

### **Hazards Identification**

#### EMERGENCY OVERVIEW

Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

#### HMIS RATING

HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 0

For additional information on toxicity, please refer to Toxicology Information.

### **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 skin contact, flush with amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### 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. Call a physician.

### **Fire Fighting Measures**

FLASH POINT: N/A

AUTOIGNITION TEMP: N/A

FLAMMABILITY: N/A

EXTINGUISHING MEDIA Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

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

### **Accidental Release Measures**

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL:

Clean thoroughly, do not allow cross contamination.

PROCEDURE(S) OF PERSONAL PRECAUTION(S):

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP:

Soak up solution and store for proper disposal. Ventilate area and wash spill site after material pickup is complete.

### **Handling and Storage**

#### HANDLING

User Exposure: Avoid prolonged inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Suitable: Keep tightly closed.  
Store in a cool, dry area.

### **Exposure Controls / PPE**

#### ENGINEERING CONTROLS

Use only in a chemical fume hood.

#### PERSONAL PROTECTIVE EQUIPMENT

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### **Physical/Chemical Properties**

Appearance Physical State: Semi-clear solution

<u>Property</u>	<u>Value</u>	<u>At Temperature or Pressure</u>
Molecular Weight:	Add value	
pH:	N/A	
BP/BP Range:	N/A	
MP/MP Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Saturated Vapor Conc.:	N/A	
SG/Density:	N/A	
Bulk Density:	N/A	
Odor Threshold:	N/A	
Volatile%:	N/A	
VOC Content:	N/A	
Water Content:	N/A	
Solvent Content:	N/A	
Evaporation Rate:	N/A	
Viscosity:	N/A	
Surface Tension:	N/A	
Partition Coefficient:	N/A	
Decomposition Temp.:	N/A	
Flash Point:	N/A	
Explosion Limits:	N/A	

Flammability: N/A  
Autoignition Temp: N/A  
Refractive Index: N/A  
Optical Rotation: N/A  
Miscellaneous Data: N/A  
Solubility: N/A

**N/A = not available**

### **Stability and Reactivity**

#### STABILITY

Stable: Stable.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Nature of decomposition products not known.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

### **Toxicological Information**

#### ROUTE OF EXPOSURE

Multiple Routes: May or may not be harmful by inhalation, ingestion, or skin absorption.

#### CONDITIONS AGGRAVATED BY EXPOSURE

The toxicological properties have not been thoroughly investigated.

### **Ecological Information**

No data available.

### **Disposal Considerations**

#### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

### **Transport Information**

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

### **Regulatory Information**

US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

### **Other Information**

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. RS Synthesis LLC shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2009 RS Synthesis LLC. License granted to make unlimited paper copies for internal use only.