

Material Safety Data Sheet

Solulink Biosciences
9853 Pacific Heights Blvd, Ste H.
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Tel: 858.625.0670
Fax: 858.625.0770
Prepared: 06/01/09

Product Name/Description: ChromaLink Maleimide Biotin

I. Product and Company Description

Solulink Biosciences
9853 Pacific Heights Blvd, Ste H.
San Diego, CA 92121

For Product Information/Emergency Phone Number:

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887(International)

SoluLink-858.625.0670 (For product use see product data sheet insert)

Chemical Name or Synonym:

6-(N'-(4-[2-(2,5-Dioxo-2,5-dihydro-pyrrol-1-yl)-ethylcarbamoyl]-benzylidene)-hydrazino)-N-(biotinyl)-propoxy)-ethoxy)-ethoxy]-propyl)-nicotinamide

ChromaLink Maleimide Biotin

II. Chemical Composition

Name: ChromaLink Maleimide Biotin
Molecular formula: C₄₀H₅₃N₉O₉S
Molecular weight: MW 836.0

ChromaLink Maleimide Biotin is a custom synthesized compound with no available CAS registry number. ChromaLink Maleimide Biotin is supplied as a dried, yellow dry powder.

Ingredient Name	CAS Number	%	EC number	Classification
ChromaLink Maleimide Biotin	Not listed	>90%	Not available	Not available

III. Hazards Identification

Emergency Overview and Health Hazards: Data not available

NFPA Rating (Scale 0-4): Health = unknown Fire = unknown Reactivity = unknown
HMIS Rating (Scale 0-4): Health = unknown Fire = unknown Reactivity = unknown

A. Emergency Overview:

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Information Pertaining To Particular Dangers for Man and Environment: Unknown

Physical Appearance: Yellow dried powder, slightly yellowish when resuspended in an aqueous solution.

B. Potential Health Effects:

Acute Eye:

Unknown. Avoid contact or exposure to eyes.

Acute Skin:

Unknown. Avoid contact or exposure to skin.

Acute Inhalation:

Unknown. Avoid contact or exposure to skin.

Acute ingestion:

Unknown. Avoid ingestion.

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:

In case of contact with eyes, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eye lids.

Skin Exposure:

In case of skin contact, wash affected areas with soap and water and flush the area with copious amounts of water. Remove contaminated clothing.

Inhalation:

In inhaled, move to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen or artificial respiration by qualified personnel.

Ingestion:

If swallowed, rinse mouth out with water provided person is conscious. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

V. Fire Fighting Measures

Fire Hazard Data:

Fire: Materials contained in this product are not considered to be a fire hazard.

Autoignition: unknown

Flash Point: unknown

Flammability Limits (vol/vol%): unknown

Lower: unknown

Upper: unknown

Extinguishing Media: Use extinguishing media appropriate for surrounding fire

Special Fire Fighting Procedures: Use extinguishing media appropriate for surrounding fire such as water spray, carbon dioxide, dry powder. Wear full protective clothing and NIOSH-

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approved self-contained breathing apparatus. Avoid inhalation of material or combustion by-products.

Unusual Fire and Explosion Hazards: None

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Use lab personal protective equipment such as gloves, lab coat, goggles and self-contained breathing apparatus. Wipe spills with absorbent wipes and discard any product, residue, disposable container or liner in full compliance with national or international regulations. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

VII. Handling and Storage

Handling/Storage:

Do not breathe dust. Do not get into eyes, skin or clothing. Avoid prolonged or repeated exposure. Handle wearing gloves.

Store material dry at room temperature and keep container tightly closed.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Ingredient Name	ACGIH	NIOSH	OSHA-PELs
ChromaLink Maleimide Biotin	No occupational limits established	No occupational limits established	No occupational limits established

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. General room ventilation is satisfactory under anticipated use conditions.

Respiratory Protection:

Not required under anticipated use conditions.

Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection:

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Wear chemical resistant gloves (such as latex or neoprene) and protective clothing to prevent skin contact.

IX. Physical and Chemical Properties

Component: ChromaLink Maleimide Biotin
Physical Appearance: Yellow powder
Percent Purity: >90%
Boiling Point: Not available
Melting Point: Not available
Specific gravity: Not available
Freezing Point: Not Available
Vapor pressure: Not available
Vapor density: Not available
Solubility: only slightly soluble in aqueous solutions, soluble in DMF and DMSO solvents
Evaporation rate: Not available

X. Stability and Reactivity

Chemical Stability:
This compound is considered stable.
Conditions to Avoid:
Susceptible to aqueous hydrolysis, avoid exposure to aqueous solutions before use.
Materials / Chemicals to Be Avoided:
Aromatic hydrazines decompose on exposure to oxidizing agents and metals
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide
Hazardous Polymerization:
Unknown

XI. Toxicological Information

Acute Oral Toxicity: Unknown
Acute Inhalation Toxicity: Unknown

Carcinogenicity:
NTP: Unknown
IARC: Unknown
OSHA: Unknown

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XII. Ecological Information

Ecotoxicological Information:
None available.

XIII. Disposal Considerations

Waste Disposal Method:
Discard any product, residue, disposable container or liner in full compliance with national regulations.

Container Handling and Disposal:
Dispose of container and unused contents in accordance with national regulations.

XIV. Transportation Information

Shipping Name: ADR/RID/IMO/ICAO/US DOT/IATA

DOT

Proper Shipping Name: ND
UN #: ND
Hazard Class: ND
Packaging Group: ND
Label Statement: ND

IATA

Proper Shipping Name: ND
IATA UN Number: ND
Hazard Class: ND
Packaging Group: ND

XV. Regulatory Information

Indication of danger: ND
Risk Assessment: ND
Safety Statement: ND

U.S. Federal Regulations:

SARA Title III Hazard Classes:

Not listed

TSCA

All components in this product are not listed.

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Other Regulations:

U.S. State None
European/International Regulations

EC Classification: ND
EC Risk and Safety Phrases: ND

Risk Phrases: ND
Safety Phrases: ND

XVI. Other Information

Key Legend Information:

N/A – Not Applicable
ND – Not Determined
ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer

The information contained herein is based on the data available to us and is believed to be correct. However Solulink Incorporated makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof be obtained from the use thereof.