

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

Version 3 Authorization Date: June, 9<sup>th</sup>, 2016

## Biotin-PEG27-NHS

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

<b>Product no.</b>	Biotin-PEG27-NHS
<b>Company</b>	Johannes Kepler University, Institute of Biophysics, Gruberstr. 40, 4020 Linz, Austria, Europe
<b>Contact</b>	Tel: (+43)732 2468 7597, (+43) 650 34 26 048 Email: hermann.gruber@jku.at

### Section 2: Hazard Identification

<b>Emergency telephone number 24h</b>	Tel: (+43) 1 406 43 43 Vergiftungsinformationszentrale
<b>Main Hazard</b>	n/a
<b>Health Effects</b>	Eyes: Unknown Skin: Unknown Inhalation: Unknown Ingestions: Unknown

### Section 3: Composition / Information on Ingredients

<b>Molecular Formula</b>	C <sub>73</sub> H <sub>136</sub> N <sub>4</sub> O <sub>34</sub> S
<b>Molecular Weight</b>	1646.0
<b>CAS Number</b>	n/a
	The chemical properties are expected to be identical to those of CAS No. 565471-88-7 which consists of a very similar poly(ethylene glycol) chain with the same functional groups on both ends.

### Section 4: First Aid Measures

<b>Eyes</b>	Flush with copious amounts of water for 10 minutes, separating eyelids with fingers. Call a physician.
<b>Skin</b>	Flush with copious amounts of water for 15 minutes.
<b>Ingestion</b>	Wash out mouth with water. Call a physician.
<b>Inhalation</b>	Move into fresh air. If breathing becomes difficult call a physician.

## Section 5: Fire Fighting Measures

<b>Extinguisher Medium</b>	CO <sub>2</sub> , foam, powder
<b>Protective Equipment for Fire Fighting</b>	Wear self contained breathing apparatus for fire fighting if necessary. Keep a safe distance from the fire when extinguishing.

## Section 6: Accidental Release

<b>Personal Precautions</b>	Wear suitable protective clothing when handling material. Avoid breathing vapors, mist or gas.
<b>Environmental Precautions</b>	Do not allow product to enter drains.

## Section 7: Handling and Storage

<b>Handling</b>	Wear latex laboratory gloves and a lab coat.
<b>Storage</b>	-20°C. Let warm to room temperature before opening the container. After opening, carefully reseal the container and store in a box over desiccant.

## Section 8: Exposure Controls/Personal Protection

<b>Respiratory Protection</b>	Required when vapours/aerosols are generated.
<b>Hand Protection</b>	Latex gloves
<b>Eye Protection</b>	Safety goggles should be worn.
<b>Other Protective Equipment</b>	Wear a lab coat.
<b>Hygiene Measures</b>	General industrial hygiene practice.

## Section 9: Physical and Chemical properties

<b>Form</b>	Solid
<b>Color</b>	White
<b>pH</b>	data not available
<b>Melting Point</b>	data not available
<b>Boiling Point</b>	data not available
<b>Flash Point</b>	data not available
<b>Ignition Point</b>	data not available
<b>Water Solubility</b>	data not available

## Section 10: Stability and Reactivity

<b>Storage Stability</b>	Stable under recommended storage conditions
<b>Materials to Avoid</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	See section 5 in case of fire.

### **Section 11: Toxicological Information**

<b>Acute Toxicity</b>	no data available
<b>Irritation and Corrosion</b>	no data available
<b>Sensitisation</b>	no data available

### **Section 12: Ecological Information**

<b>Persistence/Degradability</b>	no data available
<b>Ecotoxicity Effects</b>	no data available
<b>Further Information on Ecology</b>	no data available

### **Section 13: Disposal Considerations**

<b>Destruction</b>	Dissolve or mix the material with a combustible solvent and burn in achemical incinerator equipped with an afterburner and scrubber.
<b>Note</b>	Observe all federal, state, and local environment regulations.

### **Section 14: Transportation Information**

<b>RID/ADR</b>	Non-hazardous for road freight
<b>IMDG</b>	Non-hazardous for sea freight
<b>ICAO/IATA</b>	Non-hazardous for air freight

### **Section 15: Regulatory Information**

<b>Labelling</b>	According to EC Directives
<b>Additional Labelling</b>	Caution! Substance not yet fully tested.

### **Section 16: Other Information**

It is recommended that persons using this substance or material are fully acquainted with the hazards/safety in use procedures before handling.