

# Material Safety Data Sheet (MSDS) for Human Vascular Endothelial Growth Factor (hVEGF<sub>165</sub>)



## I. Identification:

**Product name:** Human Vascular Endothelial Growth Factor (hVEGF<sub>165</sub>)

**Product Catalog:** 8065

**CAS#:** None

**Manufacturer Supplier:** Cell Signaling Technology

3 Trask Lane

Danvers, MA 01923 USA

978-867-2300 TEL

978-867-2400 FAX

978-578-6737 EMERGENCY TEL

## II. Composition/Information:

This product is a lyophilized mixture of substances. According to 29 CFR 1910.1200(d), mixtures with hazardous ingredients at less than <1% and carcinogens at less than < 0.1% are considered non-hazardous.

**Substance Name:** human Vascular Endothelial Growth Factor 165 (hVEGF<sub>165</sub>), recombinant

Ingredients:	Carrier-Free	With Carrier	CAS#
Human VEGF-165, recombinant	98%	5%	none
Bovine serum albumin	0%	95%	9048-46-8

## III. Hazard Identification:

**This product is not for use in humans. It is intended for research purposes only.**

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been established.

**EMERGENCY OVERVIEW: OSHA:** No known hazards. This substance is not classified as dangerous according to Directive 67/548/EEC.

## IV. First Aid Measures:

**Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Get medical attention.

**Skin exposure:** In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

**Eye exposure:** In case of contact with eyes, immediately flush eyes with water for at least 15 minutes. Get medical attention.

## V. Fire Fighting Measures:

**Flash Point:** No data available.

**Autoignition Temperature:** No data available.

**Explosion:** No data available.

**Fire extinguishing media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

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

**VI. Accidental Release Measures:** Wear appropriate personal protective equipment. Sweep up material and avoid raising dust. Transfer to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

## VII. Handling And Storage:

Store in tightly closed container at 4°C. Avoid inhalation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

## VIII. Exposure Controls/Personal:

**Ventilation System:** A system of local and/or general exhaust is recommended.

**Skin Protection:** Wear compatible chemical resistant gloves and protective clothing.

**Eye protection:** Wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## IX. Physical And Chemical Properties

**Appearance:** lyophilized powder

**pH:** data not available

**Melting Point:** data not available

**Boiling Point:** data not available

**Freezing Point:** data not available

**Volatile Organic Compounds:** data not available

**Solubility in water:** water soluble

## X. Stability and Reactivity:

**Stability:** Stable under normal conditions.

**Conditions/materials to avoid:** Data not available

**Hazardous Decomposition:** Data not available.

## XI. Toxicological Information:

**Acute Effects:** Data not available.

**Chronic Effects:** Data not available.

**Potential Health Effects:** Not established.

**Inhalation:** May be harmful, may be irritating to mucous membranes and upper respiratory tract.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

## XII. Ecological Information:

No data available.

**XIII. Disposal Considerations:** Dispose of in accordance with federal, state, local environmental regulations.

## XIV. Transport Information:

**DOT:** This substance is considered Non-Hazardous for transport.

**IATA:** This substance is considered Non-Hazardous for air transport.

## XV. Regulatory Information:

**EU Regulations/Classifications/Labeling Information:** None.

**US Regulatory Information:**

**SARA Listed:** No.

**Canada (WHMIS):** DSL No, NDSL No.

## XVI. Other Information:

This compound is sold only for research use only. It is not for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.