

Material Safety Data Sheet (MSDS) for Human Fibroblast Growth Factor basic (hFGF basic)



I. Identification:

Product name: hFGF basic

Product Catalog: 8910

CAS#: None

Manufacturer Supplier: Cell Signaling Technology

3 Trask Lane

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978-867-2300 TEL

978-867-2400 FAX

978-578-6737 EMERGENCY TEL

II. Composition/Information:

Ingredients/Synonyms:	Carrier-Free	With Carrier	CAS#	RTECS#
Basic Fibroblast Growth Factor/FGF basic	>0.3%	>0.3%	106096-93-9	LK3641325
Bovine serum albumin	0%	>7%	9048-46-8	
Dithiothreitol/DTT	>99%	>92%	3483-12-3	EK1610000

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.

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.

HMIS Rating Health: 2 Flammability: 1 Reactivity: 1

NFPA Rating: Health: 2 Flammability: 1 Reactivity: 1

EMERGENCY OVERVIEW: Harmful. Irritant. Toxic by ingestion.

Target Organs: Central nervous system

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: Data not available.

Autoignition Temperature: Data not available.

Explosion: Data not 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. May emit toxic fumes under fire conditions.

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:

Moisture sensitive. Store in tightly closed container at 4°C. 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: white 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: yes

X. Stability and Reactivity:

Stability: Stable under normal conditions.

Conditions/materials to avoid: Bases, oxidizing agents, reducing agents, alkali metals.

Hazardous Decomposition: Carbon oxides, sulphur oxides, hydrogen sulfide gas.

XI. Toxicological Information:

Acute Effects: Not established.

Chronic Effects: Not established.

Potential Health Effects: Not established.

Inhalation: May be harmful, causes irritation to respiratory tract.

Skin: May be harmful if absorbed through skin. Cause skin irritation.

Eyes: Causes eye irritation.

Ingestion: Toxic if swallowed.

Toxicity Data on Hazardous ingredient Dithiothreitol:

Rat, oral, LD50: 400 mg/kg.

Mouse, intramuscular, LD50: 108mg/kg. Effect: Behavioral: convulsions or effect on seizure threshold.

Mouse intraperitoneal, LD50: 154mg/kg.

XII. Ecological Information on Hazardous

ingredient Dithiothreitol: Toxicity to Daphnia and other aquatic invertebrates: LC50: Daphnia magna (water flea) 27mg/L, 48h.

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 on Hazardous ingredient Dithiothreitol:

EU Regulations/Classifications/Labeling Information:

US Regulatory Information:

SARA Listed: No.

TSCA Listed: Yes

Canada (WHMIS): DSL listed.

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.