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Material Safety Data Sheet

		Date Created Date Updated Version	12/03/2012 1.1
Section 1- Product Information			
Product Name:	Fibroblast Growth Factor-4 (FGF-4), Human		
Product Cat. No.:	Z02984-5; Z02984-25; Z02984-100		
Section 2- Composition / Information			
Substance / Preparation:	Substance		
Ingredient Name	Fibroblast Growth Factor-4 (FGF-4), Human		
CAS No.	No		
SARA 313	No		
Section 3- Hazards Identification			
HMIS Rating			
Health	0		
Flammability	0		
Reactivity	0		
NFPA Rating			
Health	0		
Flammability	0		
Reactivity	0		
For additional information on toxicity, please re	fer to Section 11.		
Section 4- First Aid Measures			
Oral Exposure	If swallowed, wash out mouth with water provided p physician.	person is conscio	ous. Call a
Inhalation Exposure	If inhaled, remove to fresh air. If breathing becomes d	lifficult, call a phys	sician.
Dermal Exposure	In case of skin contact, flush with copious amounts of		
	Remove contaminated clothing and shoes. Call a phy		
Eye Exposure	In case of contact with eyes, flush with copious and		at least 15
	minutes. Assure adequate flushing by separating the		
	physician.		
Section 5- Fire Fighting Measures			
Flash Point	Not available		
Autoignition Temp	Not available		
Flammability	Not available		
Extinguishing Media			
Suitable	Water spray. Carbon dioxide, dry chemical powder, or a	oppropriate foam	
Fire Fighting	water spray. Carbon dioxide, dry chemical powder, or a		
5 5	Wear add contained breathing apparetus and protectiv	a alathing to pro	vent cented
Protective Equipment	Wear self-contained breathing apparatus and protective with skin and eyes.	ve clothing to pre	vent contact
Specific Hazard(s)	Emits toxic fumes under fire conditions		
Section 6- Accidental Release Meas			
Procedure to Be Followed in Case of Leak or Spill	Evacuate area		
Procedure(s) of Personal Precaution(s)	Wear respirator, chemical safety goggles, rubber boots		
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste di Ventilate area and wash spill site after material pickup i		aising dust.
Section 7- Handling and Storage			
Handling			
User Exposure	Avoid inhalation. Avoid contact with eyes, skin, and e repeated exposure.	clothing. Avoid p	orolonged or
Storage	Lyophilized recombinant human Fibroblast Growth	Factor-4 (rhECE	-4) remaine
olorage	stable up to 6 months at -80°C from date of receipt.		
	should be stable up to 2 weeks at 4°C or up to 3 month		on, nn GF - 4
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00	o contennial Ave., Fiscalaway, No 00004, OOA		

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Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls	Mechanical exhaust required
Personal Protective Equipment	
Respiratory	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) respirator.
Other	Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.
General Hygiene Measures	Wash thoroughly after handling

Section 9- Physical and Chemical Properties

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Appearance	
Physical State	Lyophilized powder
Property	
Molecular Weight	~19.4 kDa
pH	Not available
BP/BP Range	Not available
MP/MP Range	Not available
Freezing Point	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
SG/Density	Not available
Bulk Density	Not available
Odor Threshold	Not available
Volatile%	Not available
VOC Content	Not available
Water Content	Not available
Solvent Content	Not available
Evaporation Rate	Not available
Viscosity	Not available
Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Flash Point	Not available
Explosion Limits	Not available
Flammability	Not available
Autoignition Temp	Not available
Refractive Index	Not available
Optical Rotation	Not available
Miscellaneous Data	Not available
Solubility	Not available
Colubility	Not available
Continue 40. Stability and Depativity	
Section 10- Stability and Reactivity	
Stability	
Stable	Stable
Hazardous Decomposition Products	
Hazardous Decomposition Products	Nature of decomposition products not known
Section 11- Toxicological Informatio	n
Route of Exposure	
Skin Contact	May cause skin irritation
Skin Absorption	May be harmful if absorbed through the skin
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract, May
	be harmful if inhaled.
Ingestion	May be harmful if swallowed
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.

Section 12- Ecological Information



Eco-toxicity Toxicity of The Products of Biodegradation	The product itself and its products of degradation are not toxic.
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Section 13- Disposal Consideration	IS
Appropriate Method of Disposal of	Waste must be disposed of in accordance with federal, state and local
Substance or Preparation	environmental control regulations.
Section 14- 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
Section 15- Regulatory Information	
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
Section 16- Other Information	

Disclaimer

For in vitro research use only.

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.