

Material Safe Data Sheet

		Date Created 05/11/2012 Date Updated
		Version 1.1
Section 1- Product Information		
Product Name:	Interferon gamma (IFN-γ), human	
Product Cat. No.:	Z02915	
Section 2- Composition / Informatio	n on Ingredients	
Substance / Preparation:	Substance	
Ingredient Name	Interferon gamma (IFN-γ), human	
CAS No.	No	
SARA 313	No	
Section 3- Hazards Identification		
HMIS Rating		
Health	0	
Flammability	0	
Reactivity	0	
•	0	
NFPA Rating	•	
Health	0	
Flammability	0	
Reactivity	0	
or additional information on toxicity, please ref	er to Section 11.	
Section 4- First Aid Measures		
Oral Exposure	If swallowed, wash out mouth with wa	ater provided person is conscious. Call a
	physician.	
Inhalation Exposure	If inhaled, remove to fresh air. If breath	ning becomes difficult, call a physician.
Dermal Exposure		us amounts of water for at least 15 minutes
	Remove contaminated clothing and sho	
Eye Exposure		h copious amounts of water for at least 15
	physician.	separating the eyelids with fingers. Call a
	F., J. 2002. 11	
Section 5- Fire Fighting Measures		
Flash Point	Not available	
Autoignition Temp	Not available	
Flammability	Not available	
Extinguishing Media		
Suitable	Water spray. Carbon dioxide, dry chemi	cal nowder, or appropriate foam
Fire Fighting	Water spray. Carbon dioxide, dry chemic	
5 5		and much address shall be a far many safety and a set
Protective Equipment	U	is and protective clothing to prevent contac
	with skin and eyes.	
Specific Hazard(s)	Emits toxic fumes under fire conditions	
Section 6- Accidental Release Meas	sures	
Procedure to Be Followed in Case of	Evacuate area	
Leak or Spill		
Procedure(s) of Personal Precaution(s)		s, rubber boots, and heavy rubber gloves
Methods for Cleaning Up	Sweep up, place in a bag and hold	I for waste disposal. Avoid raising dust
	Ventilate area and wash spill site after m	naterial pickup is complete.
Section 7- Handling and Storage		
Handling		
User Exposure	Avoid inhalation. Avoid contact with e	yes, skin, and clothing. Avoid prolonged o
	repeated exposure.	see, stan, and clothing. Twold protonged of
Storago		n gommo (rhICN) y) remains stable on to 0
Storage		on gamma (rhIFN- γ) remains stable up to 6
	•	pon reconstitution, rhIFN- γ should be stable
	up to 1 week at 4 $^\circ\!\!\mathbb{C}$ or up to 2 months a	it -20 ℃.
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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	~17 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
-	
Section 10- Stability and Reactivity	
Stability	
Stable	Stable
Hazardous Decomposition Products	
Hazardous Decomposition Products	Nature of decomposition products not known
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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 Ageneyated by Evenesure	The textical price provides have not been therewally investigated

Ingestion Conditions Aggravated by Exposure

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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.	
Section 13- Disposal Considerations	6	
Appropriate Method of Disposal of Substance or Preparation	Waste must be disposed of in accordance with federal, state and local 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.