

# Material Safety Data Sheet

## Section 1-Product Information

Product name	rhGM-CSF, human
Product Cat. No.	Z02695

## Section 2-Composition / Information on Ingredients

Substance Name	CAS No.	SARA 313
rhGM-CSF,	None	No
Ingredient Name		
Na <sub>2</sub> HPO <sub>4</sub> .12H <sub>2</sub> O	10039-32-4	No
NaH <sub>2</sub> PO <sub>4</sub> .2H <sub>2</sub> O	13472-35-0	No

## Section 3- Hazards Identification

### Emergency Overview

Caution	The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.
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### HMIS Rating

Health	Not available
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Flammability	Not available
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Reactivity	Not available
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### NFPA Rating

Health	Not available
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Flammability	Not available
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Reactivity	Not available
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For additional information on toxicity, please refer to Section 11.

## Section 4- First Aid Measures

Oral Exposure	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Dermal Exposure	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Eye Exposure	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## Section 5- Fire Fighting Measures

Flash Point	Not available
Autoignition Temp	Not available
Flammability	Not available
Extinguishing Media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Fire Fighting	
Protective Equipment	Wear self contained breathing apparatus for fire fighting if necessary.
Specific Hazard(s)	Emits toxic fumes under fire conditions.

## Section 6- Accidental Release Measures

860 Centennial Ave., Piscataway, NJ 08854, USA

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, and heavy rubber gloves
Methods for Cleaning up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7-Handling and Storage

Handling	
User Exposure	Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	
Suitable	Keep tightly closed
Storage at -20°C	

## Section 8-Exposure Controls/Personal Protection Equipment

Engineering Controls	Mechanical exhaust required
Personal Protective equipment	
Respiratory	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
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

Appearance	
Physical State	powder, lyophilized
Property	
Molecular Weight	14.6 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

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**Section 10- Stability and Reactivity**

Stability	
Stable	Stable under recommended storage conditions.
Hazardous Decomposition Products	
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known.
Hazardous Polymerization	
Hazardous Polymerization	Will not occur

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**Section 11- Toxicological Information**

Route of Exposure	
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed
Conditions Aggravated by Exposure	Not available

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**Section 12- Ecological Information**

No data available.

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**Section 13- Disposal Considerations**

Appropriate Method of Disposal of Substance or Preparation	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
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**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

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**Section 15- Regulatory Information**

US Classification and Label Text	
US Statements	Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.
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

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**Section 16- Other Information**

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.