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Make Research Easy

SAFETY DATA SHEET

Section 1- Product Information Product Name:	Bone Morphogenetic Protein-2 (BMP-2), Human
Product Cat. No.:	Z02913
	202313
Section 2- Composition / Informati	on on Ingredients
Substance / Preparation:	Substance
Ingredient Name	Bone Morphogenetic Protein-2 (BMP-2), Human
CÁS No.	No
SARA 313	No
Section 3- Hazards Identification	
HMIS Rating	
Health	0
Flammability	ů 0
5	0
Reactivity	0
NFPA Rating	
Health	0
Flammability	0
Reactivity	0
or 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 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 Massures	
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 appropriate foam.
Fire Fighting	
Protective Equipment	Wear self-contained breathing apparatus and protective elething to provent contact
	Wear self-contained breathing apparatus and protective clothing to prevent contact
	with skin and eyes.
Specific Hazard(s)	Emits toxic fumes under fire conditions
Section 6- Accidental Release Mea	sures
Procedure to Be Followed in Case of	Evacuate area
Leak or Spill	Wear rearizator, adamical asfaty regular, without bacts, and backy with an alays
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
User Exposure	
0	repeated exposure.
Storage	lyophilized recombinant human Bone Morphogenetic Protein-2 (rhBMP-2) remains
	stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhBMP-2
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should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.

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

Appearance	
Physical State	Lyophilized powder
Property	
Molecular Weight	~26 kDa(non-reduced)
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	
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Section 11- Toxicological Information

Hazardous Decomposition Products

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.

Nature of decomposition products not known



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

Appropriate Method of Disposal of	Waste must be disposed of in accordance with federal, state and local environmental
Substance or Preparation	control regulations.

Section 14- Transport Information

DOT	
Proper Shipping Name Non-Hazardous for Transport IATA	None This substance is considered to be non-hazardous for transport.
Non-Hazardous for Air Transport	Non-hazardous for air transport
Section 15- Regulatory Information United States Regulatory information SARA Listed Canada Regulatory Information	No
WHMIS Classification DSL NDSL	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. No 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.