

Material Safety Data Sheet

Section 1- Product Information	
Product Name	Ranibizumab
Catalog No.	XXXXXX
Identified uses	Biochemical research/analysis
Company	BioMetas (Shanghai) Limited 2F, 330 Aidisheng Road Zhangjiang High Tech Park Pudong New Area Shanghai, China
Section 2- Composition/information on ingre	
No components need to be disclosed according to the	e applicable regulations.
Section 3- Hazards Identification	
HMIS Rating	<u>_</u>
Health	0
Flammability	0
Reactivity	0
NFPA Rating	0
Health	0
Flammability	0
Reactivity	0
For additional information on toxicity, please refer to Section	n 11.
Section 4- First Aid Measures	
Oral Exposure	If swallowed, wash out mouth with water provided
Inhalation Exposure	person is conscious. Call a physician. If inhaled, remove to fresh air. If breathing becomes
Dormal Exposure	difficult, call a physician. In case of skin contact, flush with copious amounts of
Dermal Exposure Eye Expose	water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. 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.
Continue E Fire Fighting Managemen	
Section 5- Fire Fighting Measures	Net available
Autoignition Temp	Not available 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 clothing to prevent contact with skin and eyes.
Specific Hazard(s)	Emits toxic fumes under fire conditions
Section 6- Accidental Release Measures	
Procedure to Be Followed in Case of Leak or Spill Procedure(s) of Personal Precaution(s)	Evacuate area Wear respirator, chemical safety goggles, rubber
Methods for Cleaning Up	boots, and heavy rubber gloves 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.

of dusts are desired, use type N95 (US) or type P1

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other

Section 7- Handling and Storage		
Handling		
User Exposure	Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.	
Storage	Tightly closed.	
C C	Storage at -80°C. Transport with dry ice.	
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	

(EN 143) respirator.

protective clothing.

Wash thoroughly after handling

Other

General Hygiene Measures

Section 9- Physical and Chemical Properties

Appearance	•	
Physical State	Form: liquid	
Property		
рН	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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Hazardous Decomposition Products	

Nature of decomposition products not known



Section 11- Toxicological Information	
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.
Section 13- Disposal Considerations	
Appropriate Method of Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Section 14- Transport Information	
DOT	
Proper Shipping Name Non-Hazardous for Transport	None 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 research use only

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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