

Material Safety Data Sheet

Section 1. Dreduct Information		
Section 1- Product Information Product Name	Denosumab	
Trouble Name	Denosumab	
Catalog No.	BM-Ab005	
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 ingr	adianta	
Section 2- Composition/information on ingre No components need to be disclosed according to the		
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 refer to Section	on 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	
Definal Exposure	water for at least 15 minutes. Remove contaminated	
	clothing and shoes. Call a physician.	
Eye Expose	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	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	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.	
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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	

(EN 143) respirator.

protective clothing.

Wash thoroughly after handling

Other

General Hygiene Measures

Section 9- Physical and Chemical Properties

Appearance		
Appearance Physical State	Form: liquid	
Property	Form. Ilquid	
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		

Stable
Hazardous Decomposition Products
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	None
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.
ΙΑΤΑ	
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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