

~		brand		-	,			
1.	IDENTIFICATION OF	THE SUBSTANCE/MIXTURE AND OF THE CO	OMPANY/UNDERTAKING					
1.1	Product Identifiers							
	Product Name:	Human RANK/TNFRSF11A (Denosumab) Ant	ibody					
	Catalog Number:	MAB11492						
1.2	Relevant identified uses of the substance or mixture and uses advised against							
	Identified Uses:	For research use only.						
1.3	Details of the supplier of the safety data sheet							
	Company:	R&D Systems, Inc. a Bio-Techne Brand	Telephone:	1-800-343-7475				
		614 McKinley Place NE	Fax:	1-612-656-4400				
		Minneapolis, MN 55413, USA	Internet:	www.rndsystems.com				
			Email address:	info@bio-techne.com				
	Canada:	21 Canmotor Ave	Telephone:	1-855-668-8722				
		Toronto, ON M8Z 4E6	Fax:	902-827-6402				
			Email address:	Canada.inquiries@bio-techne.com				
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449				
	-	Abingdon Science Park	Fax:	44 (0)1235 533420				
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com				
	China:	1193 Changning Road	Telephone:	86-400-821-3475				
		Unit 1901, Raffles Changning Office	Fax:	76 (021) 52371001				
		Shanghai, China	Email address:	techsupport.cn@bio-techne.com				
1.4								
1.4	Emergency Telephone Number For chemical emergency, spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within U.S. 1-800-262-8200 Worldwide 1-703-741-5500							
	Por chemical emergency, spill, leak, lire, exposure, or accident call CHEM FREC day or hight: within 0.5. 1-800-202-8200 worldwide 1-703-741-5500 Bio-Techne Tel: US: 612-379-2956 or 800-343-7475 / Europe: +44(0)1235-529449 / China 86-400-821-3475							
	210 1001110 1011 001 01			- 				
2.	HAZARDS IDENTIFI							
2.1	Classification of the substance or mixture							
	This substance does not meet the classification criteria according to Regulation (EC) No 1272/2008 [GHS/CLP] or 29 CFR 1910.1200 [OSHA].							
2.2	Label Elements							
	This product does not	need to be labeled in accordance with Regulation (E	C) No 1272/2008 [GHS/CLP] or	r 29 CFR 1910.1200 [OSHA].				
2.3	Other Hazards - None							
3.	COMPOSITION/INFO	DRMATION ON INGREDIENTS						
3.1	Substances							
	Not applicable.							
3.2	Mixtures							
	This product does not o	contain hazardous chemicals at concentrations of 1%	or greater. This product is not	known to contain carcinogens at concentration	ns of 0.1% or greater.			
4.	FIRST AID MEASUR	ES						
4.1	Description of first aid measures							
	General Advice							
	Consult a doctor and show this safety data sheet.							
	If Inhaled							
	Remove to fresh air and monitor breathing. In Case of Skin Contact							
	Wash skin with soap and water. If irritation occurs, consult a doctor.							
	In Case of Eye Contact							
	Flush with water for at least 15 minutes. If irritation occurs, consult a doctor.							
	If Swallowed	If Swallowed						
	D'and a state of the state of the							

Rinse mouth with water. Consult a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Odor Threshold

рH

No data available.

No data available.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. 5. FIRE-FIGHTING MEASURES 5.1 **Extinguishing Media** Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture In combustion, may emit toxic fumes. 5.3 Precautions for fire-fighters Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus. 6. ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Cover spillage with suitable absorbent material. Hold all material for appropriate disposal as described under section 13 of SDS. 6.4 Reference to other sections For required PPE see section 8. For disposal see section 13. 7. HANDLING AND STORAGE 7.1 Precautions for safe handling Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure. 7.2 Conditions for safe storage, including any incompatibilities Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. 7.3 Specific end uses Not applicable. EXPOSURE CONTROLS/PERSONAL PROTECTION 8. 8.1 **Control parameters** Components with workplace and control parameters Contains no substances with occupational exposure limit values. 8.2 Exposure controls **Appropriate Engineering Controls** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station. 8.3 **Personal Protective Equipment** Eye / Face Protection Use appropriate safety glasses. Skin Protection Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling **Body Protection** Wear appropriate protective clothing. **Respiratory Protection** If risk assessment indicates necessary, use a suitable respirator. 9. PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties Lyophilized white powder or clear liquid Vapor Pressure No data available. Appearance Odor Little to none. Vapor Density No data available.

Relative Density

Solubility

No data available.

No data available.

	Malting (English Date)	No. data and Table	Partition Coefficient	No. J. A. Star Webb				
	Melting / Freezing Point	No data available. No data available.		No data available. No data available.				
	Boiling Point / Range Flash Point	No data available.	Auto ignition Temperature Decomposition Temperature	No data available. No data available.				
	Evaporation Rate	No data available.	Viscosity	No data available.				
	Flammability (Solid, Gas)	No data available.	Explosive Properties	No data available.				
	Upper / Lower Flammability or	No data available.	Oxidizing Properties	No data available.				
	Explosive Limits							
9.2	Other safety information No data available.							
0.	STABILITY AND REACTIVITY							
0.1	Reactivity							
	Stable under recommended transpor	t or storage conditions.						
10.2	Chemical stability							
	Stable under recommended storage conditions.							
0.3	Possibility of hazardous reactions							
	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.							
10.4	Conditions to avoid							
0.5	Heat, moisture. Incompatible materials							
	Strong acids/alkalis, strong oxidizing/	/reducing agents						
0.6	Hazardous decomposition produc							
4	Strong acids/alkalis, strong oxidizing/ TOXICOLOGICAL INFORMATIOI							
1.								
1.1	Information on toxicological effect	S						
	Acute Toxicity							
	Classified based on available data.							
	Skin Corrosion/Irritation							
	Classified based on available data.							
	Serious Eye Damage / Irritation							
	Classified based on available data.							
	Respiratory or Skin Sensitization							
	Classified based on available data.							
	Germ Cell Mutagenicity							
	Classified based on available data.							
	Carcinogenicity							
	Classified based on available data.							
	Reproductive Toxicity							
	Classified based on available data.							
	Specific Target Organ Toxicity – Si	ingle Exposure						
	Classified based on available data.							
	Specific Target Organ Toxicity – Re	epeated Exposure						
	Classified based on available data.							
	Aspiration Hazard							
	Classified based on available data.							
	Symptoms / Routes of Exposure							
	Inhalation:	No known symptoms.						
	Ingestion:	No known symptoms.						
	Skin:	No known symptoms.						
	Eyes:	No known symptoms.						
	Delayed/Immediate Effects:	No known symptoms.						
	Additional Information Classified based on available data							
•								
2. 2.1	ECOLOGICAL INFORMATION Toxicity							
4.1	ionicity							

No data available.

12.2 Persistence and degradability

No data available.

12.3	Bio accumulative potential
	No data available.
12.4	Mobility in soil
	No data available.
12.5	Results of PBT and vPvB assessment
	No data available.
12.6	Other adverse effects
	No data available.
13.	DISPOSAL CONSIDERATIONS
13.1	Waste treatment methods
	Product
	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
	Contaminated Packaging
	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
14.	TRANSPORT INFORMATION
	Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.
14.1	UN-Number
	Does not meet the criteria for classification as hazardous for transport.
14.2	UN proper shipping name
	Does not meet the criteria for classification as hazardous for transport.
14.3	Transport hazard class(es)
	Does not meet the criteria for classification as hazardous for transport.
14.4	Packaging group
	Does not meet the criteria for classification as hazardous for transport.
14.5	Environmental hazards
	Does not meet the criteria for classification as hazardous for transport.
14.7	Additional Transport Information
	Does not meet the criteria for classification as hazardous for transport.
15.	REGULATORY INFORMATION
	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 and 29 CFR 1910.1200 [OSHA]
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	TSCA (Toxic Substances Control Act): Not applicable.
	SARA 313: Not applicable.
	SARA 311/312: Not applicable.
	CERCLA Reportable Quantity: Not applicable.
	California Proposition 65: Not applicable.
15.2	Chemical safety assessment
	A Chemical Safety Assessment has not been made for this product.
16.	OTHER INFORMATION

Further Information

Copyright © 2024 R&D Systems, Inc. a Bio-Techne Brand

This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. End of safety data sheet.