RD SYSTEMS a biotechne brand

1.						
	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1	Product Identifiers					
	Product Name:	Human MSX1 Antibody				
	Catalog Number:	MAB5045				
1.2	Relevant identified use	es of the substance or mixture and uses advise	ed 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:	461 North Service Rd West	Telephone:	1-855-668-8722		
		Unit B37	Fax:	902-827-6402		
		Oakville, ON L6M 2V5	Email address:	Canada.inquiries@bio-techne.com		
	United Kingdom:	19 Barton Lane	Telephone:	44 (0)1235 529449		
	3	Abingdon Science Park	Fax:	44 (0)1235 533420		
		Abingdon, OX14 3NB	Email address:	info.emea@bio-techne.com		
1.4	Emergency Telephone	Number				
	Emergency Tel:	US: 612-379-2956 or 800-343-7475 / Euro	pe: +44(0)1235-529449			
2.	HAZARDS IDENTIFICATION					
2.1	Classification of the substance or mixture					
	This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC, 1272/2008 [CLP], GHS or 29 CFR 1910.1200 [OSHA].					
2.2	Label Elements					
	The product does not need to be labelled in accordance with EC directives or respective national laws.					
2.3	Other Hazards - None					
3.	COMPOSITION/INFORMATION ON INGREDIENTS					
~ 4	Substances					
3.1						
3.1		Human MSX1 Antibody				
3.1	Product Name:	Human MSX1 Antibody nts that need to be disclosed according to appli	cable regulations.			
3.1 3.2	Product Name:		cable regulations.			
	Product Name: There are no compone Mixtures		cable regulations.			
	Product Name: There are no compone		cable regulations.			
	Product Name: There are no compone Mixtures	nts that need to be disclosed according to applie	cable regulations.			
	Product Name: There are no compone Mixtures Not applicable.	nts that need to be disclosed according to applie	cable regulations.			
3.2 4.	Product Name: There are no compone Mixtures Not applicable. FIRST AID MEASURI	nts that need to be disclosed according to applie	cable regulations.			
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3.2	Product Name: There are no compone Mixtures Not applicable. FIRST AID MEASURI Description of first aid General Advice Consult a doctor and st If Inhaled Remove to fresh air and In Case of Skin Contact	nts that need to be disclosed according to applie ES I measures how this safety data sheet. d monitor breathing. If breathing becomes difficul at	lt, give oxygen. If breathin	g stops, give artificial respiration. Consult a doctor.		
3.2	Product Name: There are no compone Mixtures Not applicable. FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sl If Inhaled Remove to fresh air and In Case of Skin Contact Immediately wash skin In Case of Eye Contact	ents that need to be disclosed according to applie ES I measures how this safety data sheet. d monitor breathing. If breathing becomes difficul t with copious amounts of soap and water for at 1	It, give oxygen. If breathin least 15 minutes. Remove			
3.2 4.	Product Name: There are no compone Mixtures Not applicable. FIRST AID MEASURI Description of first aid General Advice Consult a doctor and sl If Inhaled Remove to fresh air and In Case of Skin Contact Immediately wash skin In Case of Eye Contact Flush with copious and If Swallowed	ES I measures how this safety data sheet. d monitor breathing. If breathing becomes difficul at with copious amounts of soap and water for at l bounts of water for at least 15 minutes. Consult a	lt, give oxygen. If breathin least 15 minutes. Remove doctor.	contaminated clothing and shoes and wash before reuse. Consult a doctor.		
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7.3 Specific end uses Not applicable.					
Not applicable.					
8. EXPOSURE CONTROLS/PERSONAL PROTECTION					
8.1 Control parameters					
Components with workplace 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.					
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					
Appearance No data available. Vapor Pressure No data available.					
OddaOd					
Odor Threshold No data available. Relative Density No data available.					
pH No data available. Solubility(ies) No data available.					

Partition Coefficient

Explosive Properties

Oxidizing Properties

Viscosity

Autoignition Temperature

Decomposition Temperature

Melting / Freezing Point

Flammability (Solid, Gas)

Upper / Lower Flammability or Explosive

Boiling Point / Range

Evaporation Rate

Flash Point

Limits

No data available.

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 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

Heat, moisture.

10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

10.6 Hazardous decomposition products

Strong acids/alkalis, strong oxidising/reducing agents.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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 - Single Exposure

Classified based on available data

Specific Target Organ Toxicity - Repeated Exposure

Classified based on available data

Aspiration Hazard

Classified based on available data

Symptoms / Routes of Exposure

Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion:	There may be irritation of the throat.
Skin:	There may be mild irritation at the site of contact.
Eyes:	There may be irritation and redness.
Delayed / Immediate Effects:	No known symptoms.

Additional Information

Classified based on available data

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability No data available.

12.3 Bioaccumulative 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.

14.6 Special precautions for users

Does not meet the criteria for classification as hazardous for transport.

Additional Transport Information

Does not meet the criteria for classification as hazardous for transport.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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 © 2018 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