

Duplicate		MATERIAL SAFETY DATA SHEET				12/1/2008	
GENERAL INFORMATION							
Chemical Name and Synonyms		Thrombin, Bovine					
Trade Name and Synonyms		Thrombinex®					
INGREDIENTS							
Chemical Family	Biological Material	Formula	Not Reported				
Ingredients	20 X 2 mL Lyophilized Bovine Thrombin, 12 to 20 units per ml, Buffers and Stabilizers						
	MW*	N/A	CAS #*	N/A	EC #*	3.4.2.1.5	
Appearance and Odor	white lyophilized power without odor						
PHYSICAL DATA							
Specific Gravity	N/A	pH		~7.4			
Vapor Density	N/A	Solubility in Water		Soluble			
Evaporation Rate (H2O=1)	N/A	Vapor pressure		N/A			
Percent Volatile by Volume (%)	N/A	Boiling Point		N/A			
FIRE AND EXPLOSION HAZARD DATA							
Flash Point	non-flammable	LEL:	N/A	UEL:	N/A	Auto Ignition Temperature	N/A
Unusual Fire and Explosion Hazards		Extinguishing Media			Special Fire Fighting Procedures		
N/A		N/A			N/A		
HEALTH HAZARD DATA							
Threshold Limit Value	N/A	QSHA Threshold Limit Value		N/A			
Carcinogen - NPT Program	N/A	Primary Route(s) of Entry		Inhalation			
Carcinogen - IARC Program	N/A	ACGIH Threshold Limit Value		N/A			
Emergency First Aid	Remove to fresh air. Wash exposed area. Eye contact - Flush with running water						
Medical Conditions Aggravated	Allergies						
REACTIVITY DATA							
Stability:	Stable	Conditions to Avoid		None			
Incompatibilities	None						
Hazardous Polymerizations	None		Materials to Avoid		None		
ENVIRONMENTAL PROTECTION PROCEDURES							
Spill Response	Treat as bio-hazard						
Waste Disposal Method	Dispose as bio-hazard						
SPECIAL PROTECTION INFORMATION							
Eye Protection	Goggles		Skin Protection		Gloves		
Ventilation Recommendation	Dust Mask or respirator						
Other Protection	spill or splash protection						
SPECIAL PRECAUTIONS							
Hygienic Practices	Do not inhale or expose to skin. Normal Laboratory protective gear						
Respiratory Protection	Dust Mask or respirator						
Precautions	Do not inhale or expose to skin. Normal Laboratory protective gear						