Material Safety Data Sheet  
Revision: 02/13/2007

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS)

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME: Thrombin, Human
PRODUCT CODE: 22292
EEC NUMBER: 232-648-7

SUPPLIER:
USB Corporation, 26111 Miles Road, Cleveland, Ohio 44128  Phone: (216) 765-5000

Emergency Contact:
Chemtrec (800) 424-9300
Outside USA & Canada 703 527 3887

Please visit our website at www.usbweb.com for contact information on USB product distributors within your area.

COMPOSITION/
HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>HAZARD</th>
<th>CAS NO.</th>
<th>%WT</th>
<th>TLV</th>
<th>CHIP R &amp; S Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thrombin</td>
<td>9002-04-4</td>
<td>~98%</td>
<td>—</td>
<td>No applicable Information.</td>
</tr>
</tbody>
</table>

HAZARDS IDENTIFICATION

CHIP
No applicable Information

HCS
Biohazard

FIRST-AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.
SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.
INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.
INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Material is noncombustible. Emits toxic fumes under fire conditions.
Flash Point = No data available.

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation. Clean and sanitize spill site after material pickup is complete.

HANDLING AND STORAGE

Caution: Handle all products prepared from human sources as if they were capable of transmitting infectious agents. Avoid accidental inoculation, intravenous injection or contact with open wounds. Wear suitable protective clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Store at -20°C away from ignition sources, strong oxidizing agents and excess heat.

PERSONAL PROTECTION

Caution: Handle all products prepared from human sources as if they were capable of transmitting infectious agents. Avoid accidental inoculation, intravenous injection or contact with open wounds. Wear suitable protective clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH and appropriate to the hazard. Mechanical or local exhaust, as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye wash.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Lyophilized powder
Boiling Point: No data available
Vapor Pressure: No data available
Vapor Density: No data available
Solubility (Water): Soluble
Specific Gravity: No data available
Percent Volatile: No data available
Evaporation Rate: No data available
Chemical formula: No data available
Melting Point: No data available

STABILITY AND REACTIVITY

Product is stable. Avoid ignition sources, moisture and excess heat. Incompatible with strong oxidizing agents. Hazardous polymerization will not occur.
TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:
EYES: Contact may cause irritation.
SKIN: Contact may cause irritation, dermatitis and hypersensitive individuals may experience an allergic reaction.
INHALATION: May cause irritation to mucous membranes and upper respiratory tract. Hypersensitive individuals may experience an allergic reaction.
INGESTION: May cause irritation of mouth, throat, esophagus and gastrointestinal tract.
TARGET ORGAN(S): Vascular System.
ADDITIONAL INFORMATION:
Thrombin acts to clot blood and may be fatal if it enters the bloodstream. Repeated and/or prolonged exposure may cause an allergic reaction in certain hypersensitive individuals. Handle all products prepared from human blood as if they were capable of transmitting infectious agents. Avoid accidental inoculation, intravenous injection or contact with open wounds. Wear appropriate personal protective equipment. Wash thoroughly after handling.
Mutation and toxicity data listed in RTECS under XO8950000.
Only select RTECS information is provided here. Please see actual RTECS entry for complete information.
Intraperitoneal Rat LD50 = >40 ml/kg (1984). Toxic effects included somnolence (general depressed activity) and respiratory stimulation.
Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

ECOLOGICAL INFORMATION
No information available

DISPOSAL CONSIDERATIONS
Dispose of material in accordance with applicable local, state, and federal regulations.

TRANSPORTATION INFORMATION
US DOT / IATA: No applicable information.

REGULATORY INFORMATION
RCRA - No applicable information.
SARA 302 - No applicable information.
SARA 313 - No applicable information.
EPA TSCA Section 8(b) - Chemical Inventory.
Exposure Limits - No applicable information.
California Proposition 65 - No applicable information.

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