

MATERIAL SAFETY DATA SHEET

ML-00-00143 Rev01 2015-02

DiaPharma Thrombin, 53 nkat, BOVINE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DiaPharma Thrombin, 53 nkat
SYNONYMS: DiaPharma FIIa, DPG FIIa, DiaPharma Bovine Thrombin
PRODUCT CODES: DPGBT-1, DPGBT-10

MANUFACTURED FOR: DiaPharma Group, Inc.

ADDRESS: 8948 Beckett Road, West Chester, OH 45069

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PRODUCT USE: For **in vitro research use only**. For the determination of Antithrombin and Heparin, as well as other studies where a highly purified Thrombin is needed.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Bovine Thrombin

CAS NO. 9002-04-4

Thrombin	53 ± 5 nkat _{S-2238}
Bovine Albumin	2.4 mg
Tris (hydroxymethyl) aminomethane	9.7 mg
Tris (hydroxymethyl) aminomethane HCL	25.2 mg
Mannitol	20 mg

SECTION 3: HAZARDS IDENTIFICATION

WARNING: Usual precautions are to be taken when handling chemicals.

The animal source of this product was collected at a USDA licensed establishment. The animals received ante and post mortem health inspection at the abattoir by a US FSIS inspector and they were apparently free from infectious and contagious diseases. All donor animals were sourced from the United States.

EMERGENCY OVERVIEW: Presents little hazard if spilled or on fire

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with water. If persistent irritation occurs, seek medical advice.

SKIN: Wash with water. If persistent irritation occurs, seek medical advice.

INGESTION: Wash mouth thoroughly with water and drink water. If substance has been swallowed, drink large quantities of water.

INHALATION: Seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not flammable. This product does not present any fire or explosion hazard.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear gloves. Other PPE is not necessary. If spilled, immediately clean up any spillage by diluting with water and absorb.

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: No special precautions. Store at +2 to +8°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : No particular ventilation requirements.

RESPIRATORY PROTECTION: No particular respiratory protection needed.

EYE PROTECTION: Eye protection is recommended.

SKIN PROTECTION: Gloves are recommended. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Other protective clothing is not needed.

WORK HYGIENIC PRACTICES: The usual precautionary measures are to be adhered to when handling chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid Powder, Colorless

ODOR: Odorless

SOLUBILITY IN WATER: Miscible with water

SECTION 10: STABILITY AND REACTIVITY

STABILITY: No hazardous reactions known if handled correctly.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not known, no cases of intoxication known so far.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: This product is readily miscible with water and rated not toxic. Not known potential for bioaccumulation.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal should be made in accordance with existing disposal practices employed for biological material

SECTION 14: TRANSPORT INFORMATION

Transportation of the product is not regulated by ADR. Fragile containers, handle with care.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not applicable. For in vitro research use only.

SECTION 16: OTHER INFORMATION

N/A