

MATERIAL SAFETY DATA SHEET

Thrombin Inhibitor I-2581

Version: DMR-15-00002Rev02

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DiaPharma I-2581
SYNONYMS: Thrombin Inhibitor I-2581, I2581, 25 mg
PRODUCT CODES: B821108-25

MANUFACTURED FOR: DiaPharma Group, Inc.

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PRODUCT USE: For in vitro research use only. Not for human or drug use. Thrombin inhibitor useful for inhibiting thrombin when assaying enzymes via thrombin activation and a chromogenic substrate.

SECTION 2: HAZARDS IDENTIFICATION

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

To our knowledge the health hazards for the intact compound have not been thoroughly investigated.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Each vial contains 25 mg of synthetic thrombin inhibitor and 50 mg mannitol added as a bulking agent.

CHEMICAL CHARACTERISATION NAME: N α -dansyl-(p-guanidino)-phenylalanine-piperidine hydrochloride

HAZARDOUS INGREDIENTS: This product is not hazardous according to Regulations (EC) No 1272/2008, OSHA 29 CFR 1910.1200 (HCS) and HPR (WHMIS 2015).

CAS NO. 69-65-8 (mannitol)

EINECS-NO. unknown

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, and induce vomiting.

INHALATION: Immediately give oxygen.

If required, perform symptomatic treatment and seek medical advice. After absorption of the substance, immediately drink plenty of water and seek medical advice.

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: None known.

EXTINGUISHING MEDIA: Fire Class A extinguishers, eye-rinsing devices.

Use approved self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Immediately clean contaminated clothes. No known precautions to protect the environment are needed. Wear gloves. Other PPE is not necessary. If spilled, immediately clean up any spillage by diluting with water and absorb.

Chromogenic proteinase substrates and inhibitors are completely soluble in water even after accomplished enzyme determination. We recommend to collect all the solution residues and to dispose of in the same way as organic solvents (combustion).

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid skin and eye contact and particle inhalation. Store the product in a dry place protected from light at a temperature of +2 to +8°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : No particular ventilation requirements.

RESPIRATORY PROTECTION: Face mask.

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

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: Powder, Off-White

ODOR: Odorless

SOLUBILITY IN WATER: Miscible with water

SECTION 10: STABILITY AND REACTIVITY

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STABILITY: No hazardous reactions known if handled correctly.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: para-nitroaniline

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Possible allergic reactions with skin contact, eye contact, inhalation.

Nitroaniline is an extremely potent poison for blood. In small quantities it leads to methemoglobin formation. Its effect is strongly increased by alcohol. Locally it causes severe irritations of skin and mucous membranes. Repeated contact with skin provokes dermatitis. Oral absorption, inhalation of dust or skin resorption leads to headache, flushed face, respiratory troubles, nausea, vomiting, general weakness, tiredness, cyanosis and coma.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: This product is readily miscible with water. Water-contaminating substance. Mobility, persistence and degradability, bioaccumulative potential not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Collect in steel containers. Disposal should be made in accordance with existing disposal practices employed according to local and national legislation.

SECTION 14: TRANSPORT INFORMATION

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

SECTION 15: REGULATORY INFORMATION

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

Packing in glass containers, no special labeling requirements.

For further information, we recommend consideration of the corresponding appropriate national legislation.

SECTION 16: OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on this Material Safety Data Sheet. DiaPharma Group, Inc. shall not be held responsible for any defect in the product covered by this Material Safety Data Sheet, should the existence of such a defect not be detectable considering the current state of scientific and technical knowledge.