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'E 02/15/00 CUST#: 0-495-04629 PO#: 2152000 DATE

SAFETY SHEET PAGE MATERIAL CHEMICAL IDENTIFICATION- -SECTION 1. - -M4038 CATALOG #: SIĞMAMARKER WIDE RANGE (M.W. 6,500-205,000) NAME: - COMPOSITION/INFORMATION ON INGREDIENTS -CAS #:NONE RTECS DATA AND SYNONYMS SUPPLIED ARE FOR THE MOST ABUNDANT HAZARDOUS COMPONENT OF THIS PRODUCT. SYNONYMS NONYMS
ANTIKREIN * ANTILYSIN * ANTILYSINE * APROTININ * BASIC PANCREATIC
TRYPSIN INHIBITOR * BAYER A-128 * FOSTEN * KALLIKREIN-TRYPSIN
INACTIVATOR * KIR RICHTER * ONQUININ * REPULSON * RIKER 52G * RP-9921
* PANCREATIC BASIC TRYPSIN INHIBITOR * PANCREATIC TRYPSIN INHIBITOR *
PANCREATIC TRYPSIN INHIBITOR (KUNITZ) * TRASYLOL * TRAZININ * TRYPSIN
INHIBITOR * TRYPSIN-KALLIKREIN INHIBITOR (KUNITZ) * ZYMOFREN * ACT. SECTION 3. - - - - - - - HAZARDS IDENTIFICATION LABEL PRECAUTIONARY STATEMENTS HARMFUL MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. WARNING WARNING:
MAY CAUSE ALLERGIC REACTION.
AVOID PROLONGED OR REPEATED EXPOSURE.
AVOID BREATHING DUST.
KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION.
WASH THOROUGHLY AFTER HANDLING. WEAR SUITABLE PROTECTIVE CLOTHING. SECTION 4. - - - - - - - FIRST-AID MEASURES- - -

WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

IF SWALLOWED, WASH OUT MOUTH WITH WATER FROM LAND CALL A PHYSICIAN.
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, THE INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

- - - FIRE FIGHTING MEASURES - - -SECTION 5. - - -

EXTINGUISHING MEDIA

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SHEET

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M4038 CATALOG #: NAME: SIGMAMARKER WIDE RANGE (M.W. 6,500-205,000) WATER SPRAY CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM. SPECIAL FIREFIGHTING PROCEDURES WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS. SECTION 6. - - -- - ACCIDENTAL RELEASE MEASURES-WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. SECTION 7. - - -- - - HANDLING AND STORAGE-REFER TO SECTION 8. SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - -WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING. MECHANICAL EXHAUST REQUIRED. SECTION 9. - -PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE AND ODOR SOLID. PHYSICAL PROPERTIES SOLUBILITY: WĀTĒR -SOLUBLE SECTION 10. --STABILITY AND REACTIVITY -STABILITY STABLE. HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
SULFUR OXIDES HAZARDOUS POLYMERIZATION WILL NOT OCCUR. SECTION 11. -TOXICOLOGICAL INFORMATION -CONTINUED ON NEXT PAGE

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CATALOG #: NAME:

M4038 SIGMAMARKER WIDE RANGEM.W. 6,500-205,000)

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
MAY CAUSE ALLERGIC REACTION.
EXPOSURE CAN CAUSE NAUSEA, VOMITING, DIARRHEA, MUSCLE PAINS, BLOOD PRESSURE CHANGES, AND BRONCHOSPASM.

RTECS DATA AND SYNONYMS SUPPLIED ARE FOR THE MOST ABUNDANT HAZARDOUS COMPONENT OF THIS PRODUCT.

RTECS #: YN5080000 TRYPSIN INHIBITOR, PANCREATIC BASIC

TOXICITY DATA
IPR-RAT LD50:>40 ML/KG
SCU-RAT LD50:>40 ML/KG
IPR-MUS LD50:>50 ML/KG
SCU-MUS LD50:>50 ML/KG

DATA NOT YET AVAILABLE.

28,329,1984 28,329,1984 28,329,1984 28,329,1984 OYYAA2 OYYAA2 OYYAA2 OYYAA2

TARGET ORGAN DATA
EFFECTS ON FERTILITY (PRE-IMPLANTATION MORTALITY)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

ECOLOGICAL INFORMATION - - -SECTION 12. -

- - DISPOSAL CONSIDERATIONS SECTION 13. - - - - -

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

- TRANSPORT INFORMATION -SECTION 14. CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

- REGULATORY INFORMATION SECTION 15. - - -

EUROPEAN INFORMATION

HARMFUL R 42/43 MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT. WEAR SUITABLE PROTECTIVE CLOTHING.

RTECS DATA AND SYNONYMS SUPPLIED ARE FOR THE MOST ABUNDANT HAZARDOUS COMPONENT OF THIS PRODUCT.

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MATERIAL SAFETY DATA SHEET PAGE

CATALOG #: NAME:

M4038 SIGMAMARKER WIDE RANGE (M.W. 6,500-205,000)

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK NOES 1983: HZD X9526; NIS 2; TNF 141; NOS 5; TNE 1132; TFE 938 SECTION 16. - - - - - - - OTHER INFORMATION - - - - - - - -

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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