ATTN: SAFETY DIRECTOR
UNIV OF WISCONSIN - WHITewater
PURCHASING OFFICE
800 W MAIN ST
WHITewater WI 53190-1705

SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

EMERGENCY PHONE 1-314-771-5765
DATE 02/15/00
CUST#: 0-495-04629
PO#: 2152000

MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - CHEMICAL IDENTIFICATION - - - - - - - -

CATALOG #:
NAME: M4038
SIGAMARKER WIDE RANGE
(M.W. 6,500-205,000)

SECTION 2. - - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -

CAS #:NONE
RTCS DATA AND SYNONYMS SUPPLIED ARE FOR THE MOST ABUNDANT HAZARDOUS COMPONENT OF THIS PRODUCT.

SYNONYMS
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) * ZIMOFREN *

SECTION 3. - - - - - - HAZARDS IDENTIFICATION - - - - - - -

LABEL PRECAUTIONARY STATEMENTS
HARMFUL
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
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- - - - - - - - - -

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
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, 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.

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

CONTINUING ON NEXT PAGE

8019

We are Committed to the Success of our Customers through Science, Technology and Service.
CATALOG #: M4038
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: WATER -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
SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

CUST#: 0-495-04629
PO#: 2152000

MATERIAL SAFETY DATA SHEET

CATALOG #: M4038
NAME: SIGMAMARKER WIDE RANGE
       (M.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

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.

SECTION 12. ---------- ECOLOGICAL INFORMATION ----------
DATA NOT YET AVAILABLE.

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

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

SECTION 15. ---------- REGULATORY INFORMATION ----------
EUROPEAN INFORMATION
CAUTION: SUBSTANCE NOT YET FULLY TESTED.
HARMFUL
R 42/43
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
S 36
WEAR SUITABLE PROTECTIVE CLOTHING.
RTECS DATA AND SYNONYMS SUPPLIED ARE FOR THE MOST ABUNDANT HAZARDOUS
COMPONENT OF THIS PRODUCT.

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CUST#: 0-495-04629
PO#: 2152000

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CATALOG #: M4038
NAME: SIGMAMARKER WIDE RANGE
(M.W. 6,500-205,000)

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK
NOES 1983: HZD X9526; NIS 2; TNE 141; NOS 5; TNE 1132; TFE 938

SECTION 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
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