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BIOCHEMICALS AND DIAGNOSTIC REAGENTS

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

EMERGENCY PHONE 1-314-771-5765

DATE: 07/07/93
CUST#: 2-097-94816
PO# Q E 3178

M A T E R I A L S A F E T Y D A T A S H E E T P A G E 1

IDENTIFICATION

PRODUCT #: P6911
CAS #: 9036-06-0

NAME: PRONASE E FROM STREPTOMYCES GRISEUS,
MOLECULAR BIOLOGY
REAGENT

SYNONYMS

PRONASE * PROTELINE * PROTEINAZA I * S. GRISEUS PROTEASE * S. GRISEUS
PROTEINASE * STREPTOMYCES GRISEUS PROTEASE * STREPTOMYCES GRISEUS
PROTEINASE *

TOXICITY HAZARDS

RTECS #: UK9595000

PROTEINASE, STREPTOMYCES GRISEUS

TOXICITY DATA

ORL-RAT LD50:3290 MG/KG
IPR-RAT LD50:16200 UG/KG
SCU-RAT LD50:100 MG/KG
IVN-RAT LD50:15800 UG/KG
ORL-MUS LD50:4010 MG/KG
IPR-MJS LD50:14100 UG/KG
SCU-MJS LD50:26800 UG/KG
IVN-MUS LD50:20500 UG/KG

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ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

HARMFUL IF INHALED.
MAY BE HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTIONS.
REPEATED EXPOSURE CAN CAUSE:
ASTHMA
TARGET ORGAN(S):
LUNGS
THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY
INVESTIGATED.
MAY BE MORE POTENT AND BROADER IN SPECIFICITY THAN OTHER PROTEASES.

FIRST AID

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SIGMA CHEMIE GmbH
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D-8024 Deisenhofen
Deutschland.

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Apt. Correos 161
28100 Alcobendas (Madrid)
España.

SIGMA-ALDRICH, s.r.o.
Krizkova 27
180 00 Praha 8
Czechoslovakia

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B-2880 Bornem
Belgie/Belgique.

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England.

SIGMA CHIMIE
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B.P.701
38297 St Quentin Fallavier
Cedex, France

SIGMA CHIMICA
Div. della Sigma-Aldrich S.r.l.
Via Gallarate 154
20151 Milano
Italia

Sigma-Aldrich Pty., Limited
Unit 2, 10 Anella Ave.
Castle Hill NSW 2154
Australia.

SIGMA-ALDRICH CHEMICAL
REPRESENTAÇÕES LTDA.
Rua Sabará, 566 - Conj. 53
01239-010 São Paulo, SP
Brasil



M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 2

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--- HEALTH HAZARD DATA ---

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.

--- PHYSICAL DATA ---

APPEARANCE AND ODOR
SOLID.

--- FIRE AND EXPLOSION HAZARD DATA ---

EXTINGUISHING MEDIA
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.

--- REACTIVITY DATA ---

STABILITY
STABLE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

HAZARDOUS POLYMERIZATION

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PAGE 3

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--- REACTIVITY DATA ---

WILL NOT OCCUR.

--- SPILL OR LEAK PROCEDURES ---

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
WEAR SELF-CONTAINED BREATHING APPARATUS, 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.
WASTE DISPOSAL METHOD
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.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
HANDLE IN A CLOSED SYSTEM.

LABEL PRECAUTIONARY STATEMENTS

HARMFUL
HARMFUL BY INHALATION.
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
TARGET ORGAN(S):
LUNGS
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.
DO NOT BREATHE DUST.

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BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SIGMA SHALL NOT BE
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PAGE 4

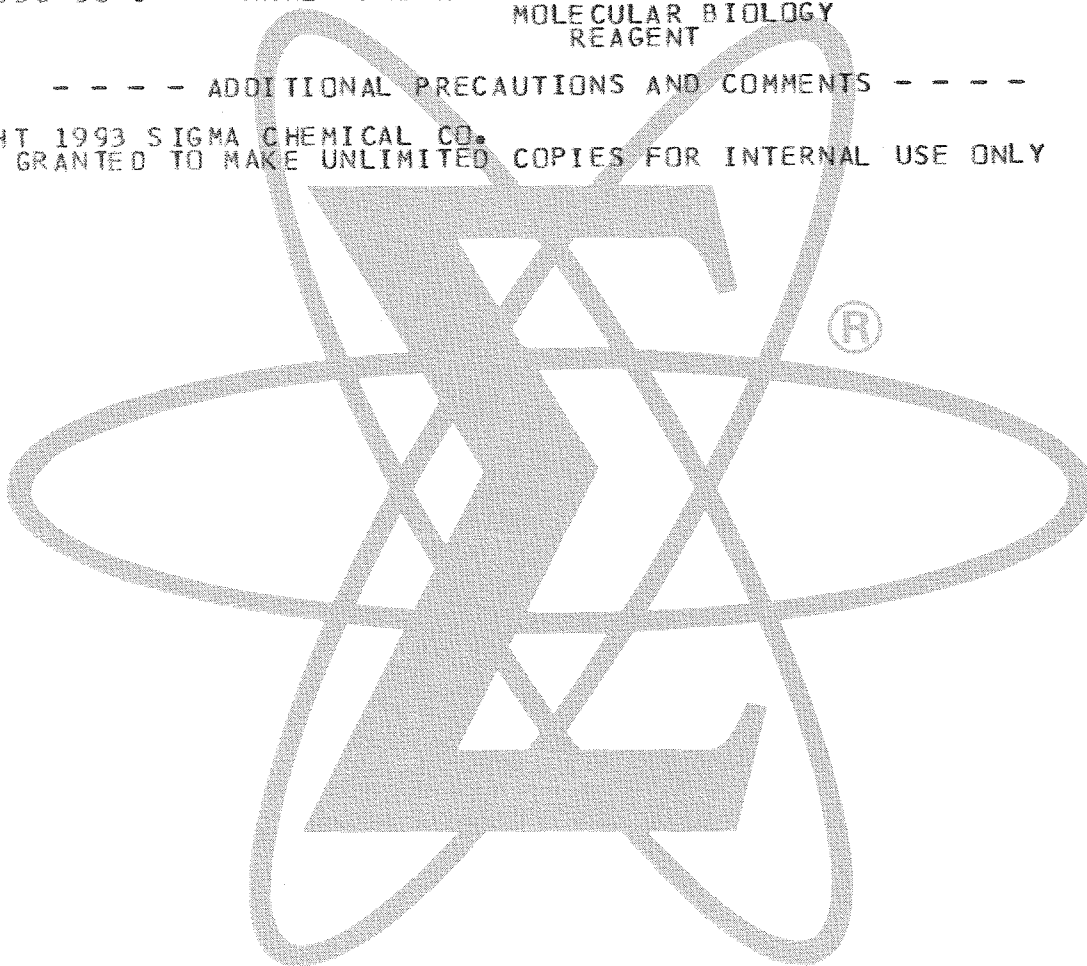
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--- ADDITIONAL PRECAUTIONS AND COMMENTS ---

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