ATTN: SAFETY DIRECTOR

UNIV OF WISC-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 09/18/96
CUST#: 2-097-94816
PO#: M4CARD 09/18/96

MATERIAL SAFETY DATA SHEET

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

CATALOG #: A8688
NAME: AGARASE I, FROM PSEUDOMONAS ATLANTICA,
MOLECULAR BIOLOGY REAGENT

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

CAS #: 37288-57-6

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

LABEL PRECAUTIONARY STATEMENTS
CAUTION:
AVOID CONTACT AND INHALATION.

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 - - - - - - - - - - - - -

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.

SECTION 6. - - - - - - - ACCIDENTAL RELEASE MEASURES- - - - - - - - - - -

WEAR PROTECTIVE EQUIPMENT.
SPILLED MATERIAL SHOULD BE CAREFULLY WIPE UP OR MOISTENED WITH WATER
AND REMOVED.

SECTION 7. - - - - - - - HANDLING AND STORAGE- - - - - - - - - - - - -

REFER TO SECTION 8.

SECTION 8. - - - - - - EXPOSURE CONTROLS/PERSOAL PROTECTION- - - - -

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WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOOGLES, OTHER PROTECTIVE CLOTHING. MECHANICAL EXHAUST REQUIRED. KEEP CONTAINER CLOSED. STORE AWAY FROM HEAT.

SECTION 9. -- -- -- -- -- PHYSICAL AND CHEMICAL PROPERTIES -- -- -- -- --
APPEARANCE AND ODOR: SOLID.

SECTION 10. -- -- -- -- -- STABILITY AND REACTIVITY -- -- -- -- --
STABILITY: STABLE.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 11. -- -- -- -- -- TOXICOLOGICAL INFORMATION -- -- -- -- --
ACUTE EFFECTS: MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. MAY CAUSE IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN SENSITIVE INDIVIDUALS. THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

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

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CAUTION: SUBSTANCE NOT YET FULLY TESTED.

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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MATERIAL WAS SHIPPED TO THIS ADDRESS:
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BIOLOGICAL SCI DEPT
CENTRAL REC STORES
N PREMONT ST
WHITEWATER WI 53190