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

EMERGENCY PHONE 1-314-771-5765
DATE: 02/23/95
CUST #: 2-097-94816
PO#: UNE-53046

MATERIAL SAFETY DATA SHEET

SECTION 1: --- --- --- --- --- CHEMICAL IDENTIFICATION --- --- --- --- ---
PRODUCT #: X1875
NAME: XANTHINE OXIDASE GRADE I FROM BUTTERMILK

SECTION 2: --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS --- --- ---
CAS #: 9002-17-9
SYNONYMS:
---
E.C.1.2.3.2 * HYPOXANTHINE OXIDASE * HYPOXANTHINE AND XANTHINE OXIDASE * SCHRADER ENZYME * XANTHINE OXIDASE * XANTHINE OXIDASE AND HYPOXANTHINE OXIDOREDUCTASE *

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.

SPECIAL FIREFIGHTING PROCEDURES:
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

SECTION 6: --- --- --- --- --- --- --- --- --- ACCIDENTAL RELEASE MEASURES--- --- ---
CONTINUED ON NEXT PAGE
PRODUCT #: X1875  
NAME: XANTHINE OXIDASE GRADE I FROM BUTTERMILK

HEALTH HAZARDS
EXPOSURE TO XANTHINE OXIDASE MAY CAUSE IMMEDIATE HEPATIC INJURY.

WASH PROTECTIVE EQUIPMENT.
SPIELED MATERIAL SHOULD BE CAREFULLY WIPIED UP OR MOISTENED WITH WATER AND REMOVED.

SECTION 7.  HANDLING AND STORAGE.
REFER TO SECTION 8.

SECTION 8.  EXPOSURE CONTROLS/PERSOLAL PROTECTION.
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES; OTHER PROTECTIVE CLOTHING. MECHANICAL EXHAUST REQUIRED.
KEEP CONTAINER CLOSED.
STORE AWAY FROM HEAT.

SECTION 9.  PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE AND ODOR.
LIQUID.

SECTION 10.  STABILITY AND REACTIVITY
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.
SENSITIVE INDIVIDUALS.
THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY CONTINUED ON NEXT PAGE.
PRODUCT #: X1875
NAME: XANTHINE OXIDASE GRADE I FROM BUTTERMILK

INVESTIGATED.
RTECS NO.: R08455000
OXIDASE, XANTHINE-
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.
OBTAIN ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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

SECTION 15. --- REGULATORY INFORMATION ---
REVIEWS, STANDARDS, AND REGULATIONS
EPA TSCA CHEMICAL INVENTORY, JUNE 1993

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.

COPYRIGHT 1995 SIGMA CHEMICAL CO.
LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.