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DATE: 02/23/95
CUST#: 2-097-94816
PO#: UNE-53046

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

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 * SCHARDINGER ENZYME * XANTHINE OXIDASE * XANTHINE OXIDASE AND HYPOXANTHINE * XANTHINE 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.
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 -----

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

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.
 KEEP CONTAINER CLOSED.
 STORE AWAY FROM HEAT.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE AND ODDR
 LIQUID.

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

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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 3

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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.
 OBSERVE 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 -----

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