ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN
WHITESTONE
ACCOUNTS PAYABLE
PO BOX 296
WHITESTONE, WI 53190-0296

EMERGENCY PHONE 1-314-771-5765
DATE: 06/04/96
CUST#: 2-097-94804
PO#: UNF-64248

MATERIAL SAFETY DATA SHEET

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 35-A

SECTION 1. CHEMICAL IDENTIFICATION
NAME: 340-101 NAD REDUCED FORM DISODIUM

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS
CAS #: 606-68-8
MF: C21H29N7O14P2
EC NO: 210-123-3

SECTION 3. HAZARDS IDENTIFICATION
DATA NOT AVAILABLE

SECTION 4. FIRST-AID MEASURES
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

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.

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
CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 35-A

CATALOG #: 340-101
NAME: B-NAD REDUCED FORM DISODIUM

REFER TO SECTION 8.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL SAFETY GOGGLES.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
NIOSH/MSHA-APPROVED RESPIRATOR.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
SOLID.

SECTION 10. STABILITY AND REACTIVITY

STABILITY STABLE.

INCOMPATIBILITIES STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
PHOSPHOROUS OXIDES

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
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

CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

CUST#: 2-097-94804
PC#: UNF-64248

CATALOG #: 340-101
NAME: B-NAD REDUCED FORM DISODIUM

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - - - REGULATORY INFORMATION - - - - - - -
DATA NOT AVAILABLE

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 1996 SIGMA CHEMICAL CO.
LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

MATERIAL WAS SHIPPED TO THIS ADDRESS:
UNIVERSITY OF WISCONSIN
WHITESTONE
CENTRAL RECVG/STORES
500 N FREMONT ST
WHITESTONE WI 53190

BRANCH OFFICES AT:
SIGMA-ALDRICH
VERTESSZIGEN GmbH
Goslarweg 30
36147 Goettingen
Germany

SIGMA-ALDRICH CHEMICALS GmbH
Industriestr. 1
35576 Limburg an der Lahn
Germany

SIGMA-ALDRICH GmbH
Karl-Marx-Allee 10
10003 Berlin
Germany

SIGMA-ALDRICH CHEMICALS (UK) LTD.
Marlow Business Park
Low Hill, Marlow
Bucks SL7 3DP
United Kingdom

SIGMA-ALDRICH CHEMICALS (FRANCE) S.A.
34 Rue Sainte-Catherine
75004 Paris
France

SIGMA-ALDRICH CHEMICALS (ITALY) S.R.L.
Via Leonardo da Vinci 6
20097 Milan
Italy

SIGMA-ALDRICH CHEMICALS (AUSTRIA) GMBH
Constantin-Arendt-Strasse 10
1210 Vienna
Austria

SIGMA-ALDRICH CHEMICALS (HONG KONG)
2/F, 7-13, Tung Shing Street
Kwai Chung
New Territories
Hong Kong

SIGMA-ALDRICH CORPORATION
4300 Highway 10
St. Louis, MO 63177
USA

SIGMA-ALDRICH CHEMICALS (FRANCE) SAS
15 Rue de la Louviere
75008 Paris
France

SIGMA-ALDRICH CHEMICALS (GREAT BRITAIN)
58, Dering Street
London W1Y 4NH
United Kingdom

SIGMA-ALDRICH CHEMICALS (GERMANY)
Karl-Marx-Allee 10
10003 Berlin
Germany

SIGMA-ALDRICH CHEMICALS (ITALY)
Via Leonardo da Vinci 6
20097 Milan
Italy

SIGMA-ALDRICH CHEMICALS (SPAIN)
Via Paseo de la Castellana 154
28046 Madrid
Spain

SIGMA-ALDRICH CHEMICALS (SWITZERLAND)
Spectrum AG
1010 Zurich
Switzerland

SIGMA-ALDRICH CHEMICALS (JAPAN)
6-25-1 Higashi-Shinbashi
Minato-ku
Tokyo 105
Japan

SIGMA-ALDRICH CHEMICALS (KOREA)
325-2 Donghwadaero 15-gil
Seocho-gu
Seoul
Republic of Korea