



POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

FAX: USA/CANADA 1-800-325-5052 OUTSIDE USA/CANADA 314-771-5757
TELEX: 910-761-0593 or 434475 ANSWERBACK "SIG OK COLLECT"

TELEPHONE: USA/CANADA 1-800-325-3010
OUTSIDE USA/CANADA call COLLECT 314-771-5750

THE WORLD'S FOREMOST MANUFACTURER OF RESEARCH
BIOCHEMICALS AND DIAGNOSTIC REAGENTS

EMERGENCY PHONE 1-314-771-5765

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

DATE: 09/08/93
CUST#: 2-097-94816
PO#: UND-41251

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

SECTION 1. --- CHEMICAL IDENTIFICATION ---

PRODUCT #: M1003 NAME: MOLYBDIC ACID SODIUM DIHYDRATE

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

CAS #: 10102-40-6
MF: MO1NA2O4

SYNONYMS
DISODIUM MOLYBDATE DIHYDRATE * SODIUM MOLYBDATE DIHYDRATE *

SECTION 3. --- HAZARDS IDENTIFICATION ---

LABEL PRECAUTIONARY STATEMENTS

HARMFUL
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.

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.

SECTION 5. --- FIRE FIGHTING MEASURES ---

EXTINGUISHING MEDIA
NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIRE-FIGHTING 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

BRANCH OFFICES AT:

SIGMA CHEMIE GmbH
Grünwalder Weg 30
D-8024 Deisenhofen
Deutschland.

SIGMA QUIMICA
Apt. Correos 161
28100 Alcobendas (Madrid)
España.

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

SIGMA CHEMIE
K. Cardijnplein, 8
B-2880 Bornem
België/Belgique.

SIGMA CHEMIE
P.O. Box 260
CH-9470 Buchs
Switzerland.

SIGMA CHEMICAL CO. LTD.
Fancy Road, Poole,
Dorset BH17 7NH
England.

SIGMA CHIMIE
L'Isle - D'Abeau Chesnes
B.P.701
38297 St Quentin Fallavier

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

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

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

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

CUST#: 2-097-94816
 PO#: UND-41251

PRODUCT #: M1003
 MF: M01NA204

NAME: MOLYBDIC ACID SODIUM DIHYDRATE

SECTION 15. ----- REGULATORY INFORMATION -----

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 10 MG(MO)/M3 85INAB 5,415,86
 MSHA STANDARD-AIR: TWA 10 MG(MO)/M3
 DTLVS* 3,173,71
 OSHA PEL: 8H TWA 15 MG(MO)/M3, TOTAL DUST
 FEREAC 54,2923,89
 OSHA PEL: 8H TWA 5 MG(MO)/M3, RESPIRABLE FRACTION (R)
 FEREAC 54,2923,89
 OSHA PEL FINAL: 8H TWA 10 MG(MO)/M3, TOTAL DUST
 FEREAC 54,2923,89
 OSHA PEL FINAL: 8H TWA 5 MG(MO)/M3, RESPIRABLE FRACTION
 FEREAC 54,2923,89
 OEL-AUSTRALIA: TWA 10 MG(MO)/M3 JANUARY 1993
 OEL-BELGIUM: TWA 10 MG(MO)/M3 JANUARY 1993
 OEL-DENMARK: TWA 10 MG(MO)/M3 JANUARY 1993
 OEL-FRANCE: TWA 5 MG(MO)/M3; STEL 10 MG(MO)/M3 JANUARY 1993
 OEL-GERMANY: TWA 15 MG(MO)/M3 JANUARY 1993
 OEL-THE NETHERLANDS: TWA 10 MG(MO)/M3 JANUARY 1993
 OEL-THE PHILIPPINES: TWA 15 MG(MO)/M3 JANUARY 1993
 OEL-SWEDEN: TWA 10 MG(MO)/M3 JANUARY 1993 (TOTAL DUST)
 OEL-SWEDEN: TWA 5 MG(MO)/M3 JANUARY 1993 (RESPIRABLE DUST)
 OEL-SWITZERLAND: TWA 10 MG(MO)/M3 JANUARY 1993
 OEL-TURKEY: TWA 15 MG(MO)/M3 JANUARY 1993
 OEL-UNITED KINGDOM: TWA 10 MG(MO)/M3; STEL 20 MG(MO)/M3 JANUARY 1993
 OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE,
 VIETNAM CHECK ACGIH TLV
 NDES 1983: HZD X1599; NIS 2; TNE 78; NDS 3; TNE 1490; TFE 1059

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.

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

SIGMA CHEMIE GmbH
 Grünwalder Weg 30
 D-8024 Deisenhofen
 Deutschland.

SIGMA QUIMICA
 Apt. Correos 161
 28100 Alcobendas (Madrid)
 España.

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

SIGMA CHEMIE
 K. Cardijnplein, 8
 B-2880 Bornem
 Belgie/Belgique.

SIGMA CHEMIE
 P.O. Box 260
 CH-9470 Buchs
 Switzerland.

SIGMA CHEMICAL CO. LTD.
 Tancy Road, Poole,
 Dorset BH17 7NH
 England.

SIGMA CHIMIE
 L'Isle - D'Abeau Chesnes
 B.P. 701
 38297 St Quentin Fallavier
 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

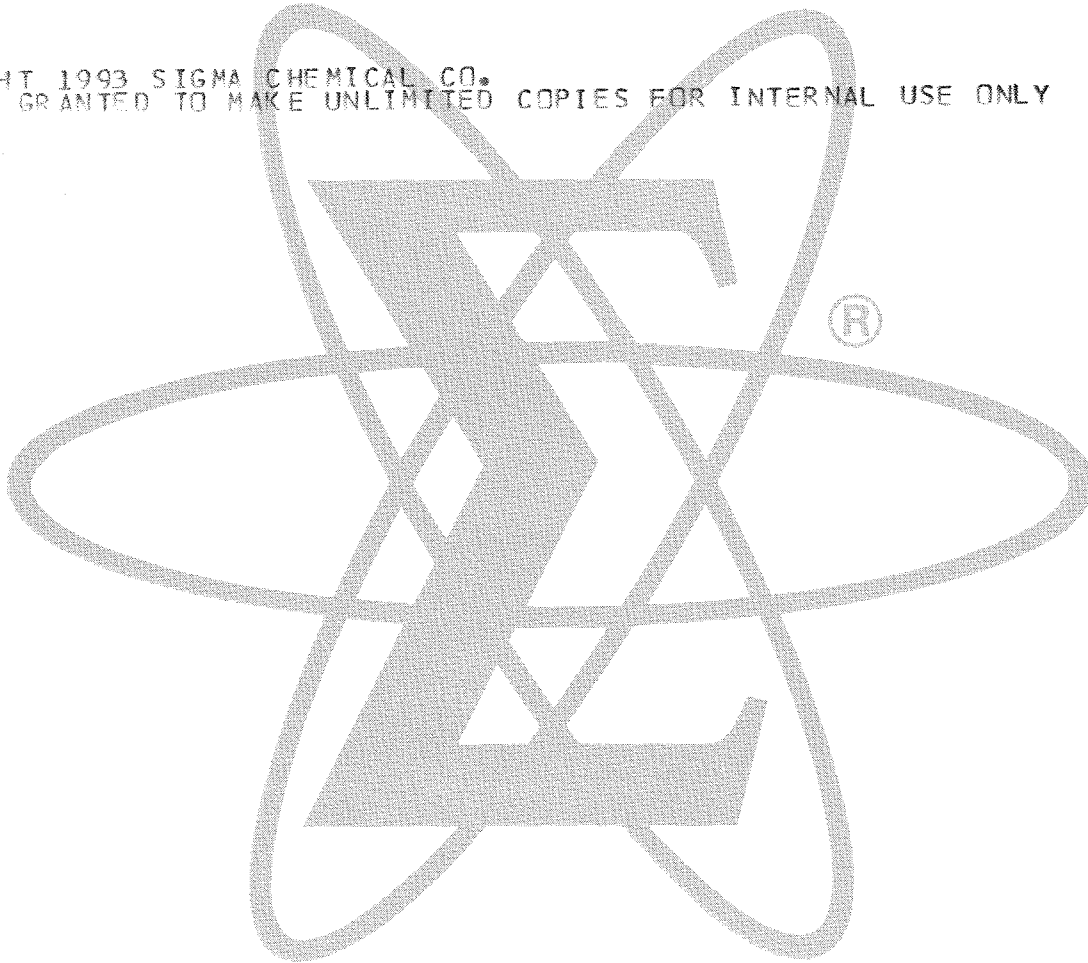
PAGE 5

PRODUCT #: M1003
MF: M01NA204

NAME: MOLYBDIC ACID SODIUM DIHYDRATE

CUST#: 2-097-94816
PO#: UND-41251

COPYRIGHT 1993 SIGMA CHEMICAL CO.
LICENSE GRANTED TO MAKE UNLIMITED COPIES FOR INTERNAL USE ONLY



BRANCH OFFICES AT:

SIGMA CHEMIE GmbH
Grünwalder Weg 30
D-8024 Deisenhofen
Deutschland.

SIGMA QUIMICA
Apt. Correos 161
28100 Alcobendas (Madrid)
España.

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

SIGMA CHEMIE
K. Cardijnplein, 8
B- 2880 Bornem
België/Belgique.

SIGMA CHEMIE
P.O. Box 260
CH-9470 Buchs
Switzerland.

SIGMA CHEMICAL CO. LTD.
Fancy Road, Poole,
Dorset BH17 7NH
England.

SIGMA CHIMIE
L'Isle - D'Abeau Chesnes
B.P. 701
38297 St Quentin Fallavier

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

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