



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

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

EMERGENCY PHONE 1-314-771-5765

DATE 06/04/96
CUST#: 2-097-94804
PO#: UNF-64248

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

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520

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

CATALOG #: 520-20
NAME: P-HYDROXYMERCURIBENZOATE 0.05M SOLUTION

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

CAS #: 138-85-2
EC NO: 205-340-5

RTECS DATA AND SYNONYMS SUPPLIED ARE FOR A CLOSELY RELATED COMPOUND.

SYNONYMS

P-CHLOROMERCURIBENZOATE * MERCURATE(1-), (4-CARBOXYLATOPHENYL)HYDROXY-
SODIUM (9CI) * PCMB * SODIUM (4-CARBOXYLATOPHENYL)
HYDROXYMERCURATE(1-) * SODIUM P-HYDROXYMERCURIBENZOATE *

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

LABEL PRECAUTIONARY STATEMENTS

TOXIC
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
DANGER OF CUMULATIVE EFFECTS.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

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.

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

SIGMA-ALDRICH VERTRIEBS GmbH Grünwalder Weg 30 82041 Dessenhofen Deutschland	SIGMA-ALDRICH QUIMICA, S.A. Apt. Correos 161 28100 Alcobendas (Madrid) España	SIGMA-ALDRICH s.r.o. Krizkova 27 186 00 Praha 8 Ceska Republika	SIGMA CHEMIE K. Cardijnplein, 8 B-2880 Bornem Belgie/Belgique	SIGMA CHEMIE P.O. Box 260 CH-9470 Buchs Switzerland	SIGMA-ALDRICH QUIMICA, S.A. de C.V. Avenida Picacho Ajusco No. 130-303 Fraccionamiento Jardines en la Montaña 14210 Mexico, D.F.	SIGMA-ALDRICH CORPORATION New Delhi Location B-4/15B, Safdarjung Enclave New Delhi - 110 029 India
SIGMA CHIMIE L'ISLE D'Abeau Chesnes B.P. 701 38297 St. Quentin Fallavier Cedex France	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 01229-010 Sao Paulo, SP Brasil	SIGMA CHEMICAL CO. LTD. Fancy Road, Poole Dorset BH17 7NH England	SIGMA-ALDRICH KR Teréz krt. 39 1057 Budapest Hungary	SIGMA-ALDRICH 206 Samhan Campus Building 17-3 Yodo-dong Yungdeungpo-ku Seoul South Korea



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

CUST#: 2-097-94804
PO#: UNE-64248

MATERIAL SAFETY DATA SHEET PAGE 2

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520

CATALOG #: 520-20
NAME: P-HYDROXYMERCURIBENZOATE 0.05M SOLUTION

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 SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR
DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. HANDLING AND STORAGE

REFER TO SECTION 8.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

NIOSH/MSHA-APPROVED RESPIRATOR.
USE ONLY IN A CHEMICAL FUME HOOD.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
CHEMICAL SAFETY GOGGLES.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
LIQUID.

SECTION 10. STABILITY AND REACTIVITY

STABILITY
STABLE.

CONDITIONS TO AVOID
PROTECT FROM LIGHT.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
MERCURY/MERCURY OXIDES

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES EYE AND SKIN IRRITATION.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

Table listing branch offices for SIGMA-ALDRICH in various countries including USA, Europe, and Asia.



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

CUST#: 2-097-94804
PO#: UNE-64248

MATERIAL SAFETY DATA SHEET PAGE 3

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520

CATALOG #: 520-20
NAME: P-HYDROXYMERCURIBENZOATE 0.05M SOLUTION

THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY
INVESTIGATED.

RTECS DATA AND SYNONYMS SUPPLIED ARE FOR A CLOSELY RELATED COMPOUND.

RTECS #: OV8150000
MERCURY, (P-CARBOXYPHENYL)HYDROXY-, SODIUM SALT

TOXICITY DATA
IPR-RAT LD50:4960 UG/KG JAPMAB 36,30,47

TARGET ORGAN DATA
PERIPHERAL NERVE AND SENSATION (FLACCID PARALYSIS WITHOUT ANESTHESIA)
BEHAVIORAL (FOOD INTAKE)
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 - - - - -
BURY IN A LANDFILL SITE APPROVED FOR THE DISPOSAL OF CHEMICAL
AND HAZARDOUS WASTES.
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

TOXIC
R 26/27/28
VERY TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R 33
DANGER OF CUMULATIVE EFFECTS.
S 13
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
S 28
AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.
S 36
WEAR SUITABLE PROTECTIVE CLOTHING.
S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

RTECS DATA AND SYNONYMS SUPPLIED ARE FOR A CLOSELY RELATED COMPOUND.

REVIEWS, STANDARDS, AND REGULATIONS

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

Table listing branch offices for SIGMA-ALDRICH in various countries including USA, Canada, Europe, and Asia.



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"

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

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

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

MATERIAL SAFETY DATA SHEET PAGE 4

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520

CATALOG #: 520-20
NAME: P-HYDROXYMERCURIBENZOATE 0.05M SOLUTION

OEL=MAK
ACGIH TLV-TWA 0.1 MG(HG)/M3 (SKIN) 85INA8 6,881,91
MSHA STANDARD-AIR:TWA 0.05 MG(HG)/M3
DTLWS* 3,22,73
OEL-AUSTRALIA:TWA 0.05 MG(HG)/M3;SKIN JANUARY 1993
OEL-BELGIUM:TWA 0.05 MG(HG)/M3;SKIN JANUARY 1993
OEL-CZECHOSLOVAKIA:TWA 0.05 MG(HG)/M3;STEL 0.15 MG(HG)/M3 JAN93
OEL-DENMARK:TWA 0.05 MG(HG)/M3 JANUARY 1993
OEL-FINLAND:TWA 0.05 MG(HG)/M3 JANUARY 1993
OEL-FRANCE:TWA 0.05 MG(HG)/M3 JANUARY 1993
OEL-GERMANY:TWA 0.01 PPM (0.1 MG(HG)/M3) JANUARY 1993
OEL-HUNGARY:TWA 0.02 MG(HG)/M3;STEL 0.04 MG(HG)/M3 JANUARY 1993
OEL-JAPAN:TWA 0.05 MG(HG)/M3 JANUARY 1993
OEL-THE NETHERLANDS:TWA 0.05 MG(HG)/M3;STEL 0.15 MG(HG)/M3 JAN93
OEL-THE PHILIPPINES:TWA 0.05 MG(HG)/M3 JANUARY 1993
OEL-POLAND:TWA 0.01 MG(HG)/M3 JANUARY 1993
OEL-RUSSIA:TWA 0.05 MG(HG)/M3;STEL 0.01 MG(HG)/M3 JANUARY 1993
OEL-SWEDEN:TWA 0.05 MG(HG)/M3 JANUARY 1993
OEL-THAILAND:STEL 0.05 MG(HG)/M3 JANUARY 1993
OEL-UNITED KINGDOM:TWA 0.05 MG(HG)/M3;STEL 0.15 MG(HG)/M3 JAN93
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO MERCURY, ARYL AND INORGANIC-AIR:CL 0.1 MG/M3 (SK)
NIOSH* DHHS #92-100,92
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

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
WHITEWATER
CENTRAL RECVG/STORES
500 N FREMONT ST
WHITEWATER WI 53190

BRANCH OFFICES AT:

SIGMA-ALDRICH VERTRIEBS GmbH Grünwalder Weg 30 82041 Deisenhofen Deutschland
SIGMA-ALDRICH QUIMICA, S.A. Apt. Correos 161 28100 Alcobendas (Madrid) España
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 CHEMIE K. Cardijnplein, 8 2880 Bornem België/Belgique
SIGMA CHEMIE CH-9470 Buchs Switzerland
SIGMA-ALDRICH QUIMICA, S.A. de C.V. Avenida Ricacho Ajusco No. 130-353 Fraccionamiento Jardines en la Montaña 14210 Mexico, D.F.
SIGMA-ALDRICH CORPORATION New Delhi Location B-4/158, Safdarjung Enclave New Delhi - 110 029 India
SIGMA-ALDRICH REPRESENTAÇÕES LTDA. Rua Sabará, 566 - Conj. 53 01299-010 São Paulo, SP Brasil
SIGMA CHEMICAL CO. LTD. Fancy Road, Poole Dorset BH17 7NH England
SIGMA-ALDRICH KH Teréz krt. 39 1067 Budapest Hungary
SIGMA-ALDRICH 206 Samhan Campus Building 17-3 Yooido-dong Yungdeungpo-ku Seoul South Korea