



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: 03/20/95
CUST#: 2-097-94816
PO#: 061085

MATERIAL SAFETY DATA SHEET PAGE 1

SECTION 1. CHEMICAL IDENTIFICATION

PRODUCT #: P1767 NAME: POTASSIUM HYDROXIDE PELLETS

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: 1310-58-3
MF: HIK101

SYNONYMS

CAUSTIC POTASH * HYDROXYDE DE POTASSIUM (FRENCH) * KALIUMHYDROXID
(GERMAN) * KALIUMHYDROXYDE (DUTCH) * LYE * POTASSA * POTASSE
CAUSTIQUE (FRENCH) * POTASSIO (IDROSSIDO DI) (ITALIAN) * POTASSIUM
HYDRATE * POTASSIUM HYDROXIDE, SOLID (UN1813) (DOT) * POTASSIUM
HYDROXIDE, SOLUTION (UN1814) (DOT) * POTASSIUM (HYDROXYDE DE) (FRENCH)
* UN1813 (DOT) * UN1814 (DOT) *

SECTION 3. HAZARDS IDENTIFICATION

LABEL PRECAUTIONARY STATEMENTS

CORROSIVE
CAUSES BURNS.
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
REACTS VIOLENTLY WITH WATER.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

SECTION 4. FIRST-AID MEASURES

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
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 IMMEDIATELY.
DISCARD CONTAMINATED CLOTHING AND SHOES.

SECTION 5. FIRE FIGHTING MEASURES

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

- SIGMA-ALDRICH /ERTRIEBS GmbH
SIGMA-ALDRICH QUIMICA, S.A.
SIGMA-ALDRICH S.r.l.
SIGMA-ALDRICH PTY., LIMITED
SIGMA-ALDRICH CHEMICAL REPRESENTAÇÕES LTDA.
SIGMA-ALDRICH CHEMICAL
SIGMA CHEMIE
SIGMA CHEMIE
SIGMA-ALDRICH QUIMICA, S.A. de C.V.
SIGMA-ALDRICH CORPORATION
SIGMA CHIMIE
SIGMA-ALDRICH S.p.A.
SIGMA-ALDRICH

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

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

PAGE 2

CUST#: 2-097-94816
 PO#: 061085

PRODUCT #: P1767
 MF: H1K101

NAME: POTASSIUM HYDROXIDE PELLETS

EXTINGUISHING MEDIA
 NONCOMBUSTIBLE.
 USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.
 DO NOT USE WATER.
 SPECIAL FIREFIGHTING PROCEDURES
 WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
 PREVENT CONTACT WITH SKIN AND EYES.
 REACTS VIOLENTLY WITH WATER.
 UNUSUAL FIRE AND EXPLOSIONS HAZARDS
 EMITS TOXIC FUMES UNDER FIRE CONDITIONS. ®

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES -----

EVACUATE AREA.
 WEAR SELF-CONTAINED BREATHING APPARATUS, 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 -----
 REFER TO SECTION 9.

ADDITIONAL INFORMATION
 DANGER: UNDER FIRE CONDITIONS MATERIAL WILL MELT AND FLOW. MOLTEN
 MATERIAL REACTS VIOLENTLY WITH WATER AND CAN REACT WITH ALUMINUM, TIN,
 ZINC AND THEIR ALLOYS TO GENERATE FLAMMABLE AND EXPLOSIVE HYDROGEN
 GAS. POTASSIUM HYDROXIDE REACTS WITH TRICHLOROETHYLENE TO FORM
 SPONTANEOUSLY FLAMMABLE DICHLOROACETYLENE.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
 GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
 SAFETY SHOWER AND EYE BATH.
 USE ONLY IN A CHEMICAL FUME HOOD.
 FACESHIELD (8-INCH MINIMUM).
 DO NOT BREATHE DUST.
 DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

SIGMA-ALDRICH /ERTRIEBS GmbH Brunwalder Weg 30 2041 Daisenhofen Deutschland	SIGMA-ALDRICH QUIMICA, S.A. Apt. Correas 161 28100 Alcobendas (Madrid) Espana	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-4/158, Sardarjung Enclave New Delhi - 110 029 India
SIGMA CHIMIE ISLE D'Abeau Chesnes r.P. 701 8297 St. Quentin Fallavier Italia	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 Sabara, 566 - Conj. 53 01239-010 São Paulo, SP Brasil	SIGMA CHEMICAL CO. LTD. Fancy Road, Poole Dorset BH17 7NH England	SIGMA-ALDRICH KR Teréz krt. 39 1067 Budapest Hungary	SIGMA-ALDRICH 206 Samhan Campus Building 17-3 Yoido-dong Yungdeungpo-ku Seoul South Korea

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

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

PAGE 3

CUST#: 2-097-94816
 PO#: QG1085

PRODUCT #: P1767
 MF: HIK101

NAME: POTASSIUM HYDROXIDE PELLETS

AVOID PROLONGED OR REPEATED EXPOSURE.
 WASH THOROUGHLY AFTER HANDLING.
 CORROSIVE.
 TOXIC.
 KEEP TIGHTLY CLOSED.
 DO NOT ALLOW CONTACT WITH WATER.
 STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODDR

SOLID.
 MELTING POINT: 361 C
 VAPOR PRESSURE: 1MM 719 C
 SPECIFIC GRAVITY: 2.044

SECTION 10. ----- STABILITY AND REACTIVITY -----

STABILITY

STABLE.

INCOMPATIBILITIES

ACIDS
 ALUMINUM
 HALOGENS
 NITRO COMPOUNDS
 ORGANIC MATERIALS
 ACID CHLORIDES
 ACID ANHYDRIDES
 MAGNESIUM
 COPPER
 TIN
 ZINC

DO NOT HEAT ABOVE MELTING POINT.
 PROTECT FROM MOISTURE.
 ABSORBS CO₂ FROM AIR.
 REACTS VIOLENTLY WITH:

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
 WATER
 GENERATES FLAMMABLE AND/OR EXPLOSIVE HYDROGEN GAS IN CONTACT WITH:
 METALS
 HYDROGEN GAS

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

SIGMA-ALDRICH /VERTRIEBS GmbH Grünwalder Weg 30 12041 Deisenhofen Deutschland	SIGMA-ALDRICH QUIMICA, S.A. Apt. Correos 161 28100 Alcobendas (Madrid) España	SIGMA-ALDRICH s.r.l. Krizkova 27 186 00 Praha 8 Ceská Republika	SIGMA CHEMIE K. Cardijnplein, 8 B-2880 Bornem Belgie/Belgique	SIGMA CHEMIE P.O. Box 280 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-4/158, Safdarjung Enclave New Delhi - 110 029 India
SIGMA CHIMIE 1, P. 701 18297 St. Quentin Fallavier Jedex	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	SIGMA CHEMICAL CO. LTD. Fancy Road, Poole Dorset BH17 7NH England	SIGMA-ALDRICH KR Teréz krt. 39 1067 Budapest Hungary	SIGMA-ALDRICH 206 Samhan Campus Building 17-3 Yoido-dong Yungdeungpo-ku Seoul South Korea

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

----- MATERIAL SAFETY DATA SHEET ----- PAGE 4

CUST#: 2-097-94816
 PO#: QG1085

PRODUCT #: P1767
 MF: HIK101

NAME: POTASSIUM HYDROXIDE PELLETS

HAZARDOUS POLYMERIZATION
 WILL NOT OCCUR.

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
 MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
 AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
 INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA
 OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
 SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
 WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
 VOMITING.

RTECS NO: TT2100000
 POTASSIUM HYDROXIDE (ACGIH)

IRRITATION DATA

SKN-HRN 50 MG/24H SEV
 SKN-RBT 50 MG/24H SEV
 EYE-RBT 1 MG/24H RINSE MOD
 SKN-GPG 50 MG/24H SEV

TXAPA9 31,481,75
 TXAPA9 31,481,75
 TXAPA9 32,239,75
 TXAPA9 31,481,75

TOXICITY DATA

ORL-RAT LD50:273 MG/KG
 ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
 (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
 COMPLETE INFORMATION.

FAATDF 8,97,97

SECTION 12. ----- ECOLOGICAL INFORMATION -----

DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
 THIS MATERIAL.
 OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----

CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

CONTINUED ON NEXT PAGE

BRANCH OFFICES AT:

SIGMA-ALDRICH /ERTRIEBS GmbH Friedwalder Weg 30 2041 Dalsenhofen Deutschland	SIGMA-ALDRICH QUIMICA, S.A. Apt. Correas 161 28100 Alcobendas (Madrid) España	SIGMA-ALDRICH s.r.o. Krizkova 27 186 00 Praha 8 Ceská 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-4/158, Safdarjung Enclave New Delhi - 110 029 India
SIGMA CHIMIE ISLE D'Abbeu Chesnes L.P. 701 8297 St. Quentin Fallavier Italia	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	SIGMA CHEMICAL CO. LTD. Fancy Road, Poole Dorset BH17 7NH England	SIGMA-ALDRICH Kft Tévez ut. 39 1067 Budapest Hungary	SIGMA-ALDRICH 208 Samhan Campus Building 17-3 Yoido-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

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

CUST#: 2-097-94816
PO#: QG1085

PRODUCT #: P1767
MF: H1K101

NAME: POTASSIUM HYDROXIDE PELLETS

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

REVIEWS, STANDARDS, AND REGULATIONS
ACGIH TLV-CL 2 MG/M3
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,7740,89
DEL-AUSTRALIA:TWA 2 MG/M3 JAN93
DEL-BELGIUM:STEL 2 MG/M3 JAN93
DEL-DENMARK:TWA 2 MG/M3 JAN93
DEL-FINLAND:TWA 2 MG/M3 JAN93
DEL-FRANCE:STEL 2 MG/M3 JAN93
DEL-JAPAN:STEL 2 MG/M3 JAN93
DEL-THE NETHERLANDS:TWA 2 MG/M3 JAN93
DEL-SWITZERLAND:TWA 2 MG/M3 JAN93
DEL-UNITED KINGDOM:TWA 2 MG/M3;STEL 2 MG/M3 JAN93
DEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
DEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO POTASSIUM HYDROXIDE-AIR:CL 2 MG/M3
NIOSH* OHS #92-100,92
NOHS 1974: HZD 60440; NIS 340; TNF 80620; NOS 181; TNE 1081553
NOES 1983: HZD X3783; NIS 11; TNF 543; NOS 16; TNE 6722; TFE 2651
NOES 1983: HZD 60440; NIS 330; TNF 67102; NOS 215; TNE 1683743; TFE 668785
EPA TSCA CHEMICAL INVENTORY, JUNE 1993
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JULY 1994
NIOSH ANALYTICAL METHOD, 1994: ALKALINE DUSTS, 7401

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.

BRANCH OFFICES AT:

- SIGMA-ALDRICH /ERTRIEBS GmbH
SIGMA-ALDRICH QUIMICA, S.A.
SIGMA-ALDRICH S.r.l.
SIGMA-ALDRICH PTY., LIMITED
SIGMA CHEMIE
SIGMA CHEMIE
SIGMA-ALDRICH QUIMICA, S.A. de C.V.
SIGMA-ALDRICH CORPORATION
SIGMA CHIMIE
SIGMA-ALDRICH S.r.l.
SIGMA-ALDRICH CHEMICAL
SIGMA CHEMICAL CO. LTD.
SIGMA-ALDRICH KR
SIGMA-ALDRICH