



chemists helping chemists in research & industry

aldrich chemical co., inc.

P.O. Box 355, Milwaukee, Wisconsin 53201 USA

Telephone: (414) 273-3850

TWX: (910) 262-3052 Aldrichem M

Telex: 26 843 Aldrich MI

FAX: (414) 273-4979

ATTN: SAFETY DIRECTOR
JOEL WATKINS F252
SCHOOLCRAFT COLLEGE
18600 HAGGERTY ROAD
LIVONIA MI 48152

DATE: 07/21/92
CUST#: 946188
PO#: P0071984

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

IDENTIFICATION

PRODUCT #: 21756-5
CAS #: 10326-27-9
MF: BACL2

NAME: BARIUM CHLORIDE DIHYDRATE, 99+%, A.C.S.
REAGENT

SYNONYMS

BARIUM DICHLORIDE DIHYDRATE * NCI-C61074 *

TOXICITY HAZARDS

RTECS NO: CQ8751000

BARIUM CHLORIDE, DIHYDRATE

TOXICITY DATA

IPR-MUS LD50: 51 MG/KG

TXAPA9 63,461,82

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 0.5 MG(BA)/M3 85INA8 5,47,86

MSHA STANDARD-AIR: TWA 0.5 MG(BA)/M3 DTLVS* 3,21,71

SHA PEL: 8H TWA 0.5 MG(BA)/M3 FEREAC 54,2923,89

SHA PEL FINAL: 8H TWA 0.5 MG(BA)/M3 FEREAC 54,2923,89

NOES 1983: HZD X7401; NIS 3; TNF 42; NOS 3; TNE 320

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, MARCH 1992

NTP CARCINOGENESIS STUDIES; ON TEST (TWO YEAR STUDIES), JANUARY 1992

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN.

CAUSES EYE AND SKIN IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER

RESPIRATORY TRACT.

EXPOSURE CAN CAUSE:

STOMACH PAINS, VOMITING, DIARRHEA.

TARGET ORGAN(S):

HEART

NERVES

KIDNEYS

G.I. SYSTEM

BONE MARROW

SPLEEN

LIVER

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

CONTINUED ON NEXT PAGE

France

Aldrich-Chimie S.r.l.
B.P. 701
38297 Saint Quentin Fallavier
Cedex
Telephone: 74822800
Telex: 303215 Aldrich F
FAX: 74656808

Italy

Aldrich Chimica
Via Gallarate, 154
20151 Milano
Telephone: 02334 17370
FAX: 02380 10737

Japan

Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 0332580155
FAX: 0332580157

Spain

Aldrich Quimica
Aptdo. 161
28100 Alcobendas (Madrid)
Telephone: 34 166 19977
Telex: 22 189 SAQS E
FAX: 34 166 19642

United Kingdom

Aldrich Chemical Co. Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: 0747822211
Telex: 417238 Aldrich G
FAX: 0747823779

Germany

Aldrich-Chemie GmbH & Co. KG
W-7924 Steinheim
Telephone: 07329870
Telex: 714838 Aldri D
FAX: 0732987139/239

Switzerland

Aldrich Chemie
Industriestrasse 25
P.O. Box 260
CH-9470 Buchs
Telephone: 08569723
FAX: 08567420

Australia

Aldrich Chemical
Unit 2
10 Anella Ave.
Castle Hill NSW 2154
Telephone: 028999977
FAX: 028999742

Belgium/Holland

Aldrich Chemie
K. Cardijnplein, 8
B-2880 Bornem
Telephone: 03899 1301
FAX: 03899 1311



chemists helping chemists in research & industry

aldrich chemical co., inc.

P.O. Box 355, Milwaukee, Wisconsin 53201 USA

Telephone: (414) 273-3850

TWX: (910) 262-3052 Aldrichem M

Telex: 26 843 Aldrich MI

FAX: (414) 273-4979

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 2**

CUST#: 946188
PO#: P0071984

PRODUCT #: 21756-5
CAS #: 10326-27-9
MF: BACL2

NAME: BARIUM CHLORIDE DIHYDRATE, 99+%, A.C.S.
REAGENT

----- HEALTH HAZARD DATA -----

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

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.

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.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

----- PHYSICAL DATA -----

SPECIFIC GRAVITY: 3.097

APPEARANCE AND ODOR
WHITE POWDER

----- FIRE AND EXPLOSION HAZARD DATA -----

EXTINGUISHING MEDIA

NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

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.

----- REACTIVITY DATA -----

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

HYDROGEN CHLORIDE GAS

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.

CONTINUED ON NEXT PAGE

France

Aldrich-Chimie S.a.r.l.
B.P. 701
38297 Saint Quentin Fallavier
Cedex
Telephone: 74822800
Telex: 308215 Aldrich F
FAX: 74956808

Italy

Aldrich Chimica
Via Gallarate, 154
20151 Milano
Telephone: 0233417370
FAX: 0238010737

Japan

Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 0332580155
FAX: 0332580157

Spain

Aldrich Quimica
Aptdo. 161
28100 Alcobendas (Madrid)
Telephone: 3416619977
Telex: 22189 SAQS E
FAX: 3416619642

United Kingdom

Aldrich Chemical Co. Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: 0747822211
Telex: 417238 Aldrich G
FAX: 0747823779

Germany

Aldrich-Chemie GmbH & Co. KG
W-7924 Steinheim
Telephone: 07329870
Telex: 714838 Aldri D
FAX: 0732987139/239

Switzerland

Aldrich Chemie
Industriestrasse 25
P.O. Box 260
CH-9470 Buchs
Telephone: 08569723
FAX: 08567420

Australia

Aldrich Chemical
Unit 2
10 Anella Ave.
Castle Hill NSW 2154
Telephone: 028999977
FAX: 028999742

Belgium/Holland

Aldrich Chemie
K. Cardijnplein, 8
B-2880 Bornem
Telephone: 038991301
FAX: 038991311



chemists helping chemists in research & industry

aldrich chemical co., inc.

P.O. Box 355, Milwaukee, Wisconsin 53201 USA

Telephone: (414) 273-3850

TWX: (910) 262-3052 Aldrichem MI

Telex: 26 843 Aldrich MI

FAX: (414) 273-4979

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#: 946188
PO#: P0071984

PRODUCT #: 21756-5
CAS #: 10326-27-9
MF: BACL2

NAME: BARIUM CHLORIDE DIHYDRATE, 99+%, A.C.S.
REAGENT

----- SPILL OR LEAK PROCEDURES -----

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.

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.

WASTE DISPOSAL METHOD

TO A SOLUTION OF THE PRODUCT IN WATER, ADD AN EXCESS OF DILUTE SULFURIC ACID. LET STAND OVERNIGHT. REMOVE ANY INSOLUBLES AND BURY IN A LANDFILL SITE APPROVED FOR HAZARDOUS WASTE DISPOSAL.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

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.

DO NOT BREATHE DUST.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID ALL CONTACT.

WASH THOROUGHLY AFTER HANDLING.

HIGHLY TOXIC.

IRRITANT.

KEEP TIGHTLY CLOSED.

STORE IN A COOL DRY PLACE.

LABEL PRECAUTIONARY STATEMENTS

HIGHLY TOXIC (USA DEFINITION)

TOXIC (EUROPEAN DEFINITION)

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

TARGET ORGAN(S):

HEART

NERVES

IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (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.

CONTINUED ON NEXT PAGE

France
Aldrich-Chimie S.a.r.l.
B.P. 701
38297 Saint Quentin Fallavier
Cedex
Telephone: 74822800
Telex: 303215 Aldrich F
FAX: 74856808

Italy
Aldrich Chimica
Via Gallarate, 154
20151 Milano
Telephone: 02334 17370
FAX: 0238010737

Japan
Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 0332580155
FAX: 0332580157

Spain
Aldrich Quimica
Aptdo. 161
28100 Alcobendas (Madrid)
Telephone: 3416619977
Telex: 22189 SAQS E
FAX: 3416619642

United Kingdom
Aldrich Chemical Co. Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP8 4JL
Telephone: 0747822211
Telex: 417238 Aldrich G
FAX: 0747823779

Germany
Aldrich-Chemie GmbH & Co. KG
W-7924 Steinheim
Telephone: 07329870
Telex: 714838 Aldri D
FAX: 0732987139/239

Switzerland
Aldrich Chemie
Industriestrasse 25
P.O. Box 260
CH-9470 Buchs
Telephone: 08569723
FAX: 08567420

Australia
Aldrich Chemical
Unit 2
10 Anella Ave.
Castle Hill NSW 2154
Telephone: 028999977
FAX: 028999742

Belgium/Holland
Aldrich Chemie
K. Cardijnplein, 8
B-2880 Bornem
Telephone: 038991301
FAX: 038991311



chemists helping chemists in research & industry

aldrich chemical co., inc.

P.O. Box 355, Milwaukee, Wisconsin 53201 USA

Telephone: (414) 273-3850

TWX: (910) 262-3052 Aldrichem MI

Telex: 26 843 Aldrich MI

FAX: (414) 273-4979

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 4**

CUST#: 946188
PO#: P0071984

PRODUCT #: 21756-5
CAS #: 10326-27-9
MF: BACL2

NAME: BARIUM CHLORIDE DIHYDRATE, 99+%, A.C.S. REAGENT

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

DO NOT BREATHE DUST.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH 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 1992 ALDRICH CHEMICAL CO., INC.

LICENSE GRANTED TO MAKE UNLIMITED COPIES FOR INTERNAL USE ONLY.

ALDRICH



France
Aldrich-Chimie S.a.r.l.
B.P. 701
38297 Saint Quentin Fallavier
Cedex
Telephone: 74822800
Telex: 303215 Aldrich F
FAX: 74956808

Belgium/Holland
Aldrich Chemie
K. Cardijnplein, 8
B-2880 Bornem
Telephone: 038991301
FAX: 038991311

Italy
Aldrich Chimica
Via Gallarate, 154
20151 Milano
Telephone: 02334 17370
FAX: 0238010737

Japan
Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 0332580155
FAX: 0332580157

Spain
Aldrich Quimica
Aptdo. 161
28100 Alcobendas (Madrid)
Telephone: 3416619977
Telex: 22189 SAQS E
FAX: 3416619642

United Kingdom
Aldrich Chemical Co. Ltd.
The Old Brickyard, New Road
Gillingham, Dorset SP6 4JL
Telephone: 0747822211
Telex: 417238 Aldrich G
FAX: 0747823779

Germany
Aldrich-Chemie GmbH & Co. KG
W-7924 Steinheim
Telephone: 07329870
Telex: 714838 Aldri D
FAX: 0732987139/239

Switzerland
Aldrich Chemie
Industriestrasse 25
P.O. Box 260
CH-9470 Buchs
Telephone: 08569723
FAX: 08567420

Australia
Aldrich Chemical
Unit 2
10 Anella Ave.
Castle Hill NSW 2154
Telephone: 028999977
FAX: 028999742