



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

ATTN: SAFETY DIRECTOR

EMERGENCY PHONE 1-414-273-3850

UNIVERSITY OF WISCONSIN WHITEWATER  
P O BOX 296  
WHITEWATER WI 53190-0296

DATE 05/28/96  
CUST#: 523216  
PO#: UNF64115

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- - - - -

CATALOG #: 30872-2  
NAME: BENZENE-D6, 99.6 ATOM % D  
(1PK=5 X 0.5ML)

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

CAS #: 1076-43-3  
MF: C6D6  
EC NO: 214-061-8

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA DEFINITION)  
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)  
TOXIC  
MAY CAUSE CANCER.  
TOXIC: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
DANGER: CONTAINS BENZENE, CANCER HAZARD.  
MUTAGEN.  
CAUSES SEVERE EYE IRRITATION.  
TARGET ORGAN(S):  
BLOOD  
BONE MARROW  
EYES  
KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.  
AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.  
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).  
HYGROSCOPIC  
STORE UNDER NITROGEN.

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.  
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

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

CONTINUED ON NEXT PAGE

Holland  
Aldrich Chemie  
Telephone: 3238991301  
Fax: 3238991311

Spain  
Aldrich Quimica  
Apt. de Correos, 161  
28100 Alcobendas, Madrid  
Telephone: 3416619977  
Fax: 3416619642

Italy  
Aldrich Chimica  
Via Gallarate, 154  
20151 Milano  
Telephone: 39233417340  
Fax: 39238010737

Switzerland  
Aldrich Chemie  
Industriestrasse 25  
CH-9470 Buchs  
Telephone: 41817552723  
Fax: 41817567420

Belgium  
Aldrich Chemie  
K. Cardijnplein 8  
B-2880 Bornem  
Telephone: 3238991901  
Fax: 3238991311

Czech Republic  
Aldrich, s.r.o.  
Křizkova, 27  
180 00 Prague-8  
Telephone: 42224225285  
Fax: 42224224031

India  
Aldrich-India  
B4/153 Safdarjung Enclave  
New Delhi 110 029  
Telephone: 91116886872  
Fax: 91116886873

8523

France  
Aldrich-Chimie S.a.r.l.  
L'Isle D'Abau Chesnes  
B.P. 701  
98297 St. Quentin Fallavier  
Cedex  
Telephone: 3374822800

Japan  
Aldrich Japan  
Kyodo Bldg. Shinkanda  
10 Kanda-Mikuracho  
Chiyoda-Ku, Tokyo  
Telephone: 81332580155  
Fax: 81332580157

Australia  
Aldrich Chemicals  
Unit 2  
10 Anella Ave.  
Castle Hill, NSW 2154  
Telephone: 6128999977  
Fax: 6128999742

United Kingdom  
Aldrich Chemical Co. Ltd.  
The Old Brickyard, New Road  
Gillingham, Dorset SP8 4JL  
Telephone: 44747822211  
Fax: 44747823779

Brazil  
Aldrich-Brazil  
Rua Sabara, 566-conj.53  
01239-010 Sao Paulo, SP  
Telephone: 55112311866  
Fax: 55112579079

Germany  
Aldrich-Chemie GmbH & Co.KG  
Riedstrasse 2, D-89555 Steinheim  
Telephone: 497329970  
Fax: 4973291939



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

CUST#: 523216  
PO#: UNF64115

## 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

CATALOG #: 30872-2  
NAME: BENZENE-D6, 99.6 ATOM % D  
(1PK=5 X 0.5ML)

### EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.  
WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.

### SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.  
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

### UNUSUAL FIRE AND EXPLOSIONS HAZARDS

DANGER:  
EXTREMELY FLAMMABLE.  
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.  
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

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

EVACUATE AREA.  
SHUT OFF ALL SOURCES OF IGNITION.  
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.  
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED CONTAINERS. TRANSPORT OUTDOORS.  
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 - - - - -

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.  
USE NONSPARKING TOOLS.  
DO NOT BREATHE VAPOR.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
WASH THOROUGHLY AFTER HANDLING.  
CARCINOGEN.  
TOXIC.  
SEVERE EYE IRRITANT.  
MUTAGEN.  
KEEP TIGHTLY CLOSED.  
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.  
HYGROSCOPIC

CONTINUED ON NEXT PAGE

**Holland**  
Aldrich Chemie  
Telephone: 3238991301  
Fax: 3238991311

**Spain**  
Aldrich Quimica  
Apt. de Correos, 161  
28100 Alcobendas, Madrid  
Telephone: 3416619977  
Fax: 3416619642

**Italy**  
Aldrich Chimica  
Via Gallarate, 154  
20151 Milano  
Telephone: 39233417340  
Fax: 39238010737

**Switzerland**  
Aldrich Chemie  
Industriestrasse 25  
CH-9470 Buchs  
Telephone: 41817552723  
Fax: 41817567420

**Belgium**  
Aldrich Chemie  
K. Cardijnplein 8  
B-2880 Bornem  
Telephone: 3238991301  
Fax: 3238991311

**Czech Republic**  
Aldrich, s.r.o.  
Krizkova, 27  
180 00 Prague-8  
Telephone: 42224225285  
Fax: 42224224031

**India**  
Aldrich-India  
B4/158 Safdarjung Enclave  
New Delhi 110 029  
Telephone: 91116886872  
Fax: 91116886873

**8524**

**France**  
Aldrich-Chimie S.a.r.l.  
L'Isle D'Abeau Chesnes  
B.P. 701  
38297 St. Quentin Fallavier  
Cedex  
Telephone: 3374822800  
Fax: 3374822800

**Japan**  
Aldrich Japan  
Kyodo Bldg. Shinkanda  
10 Kanda-Mikuracho  
Chiyoda-Ku, Tokyo  
Telephone: 81332580155  
Fax: 81332580157

**Australia**  
Aldrich Chemicals  
Unit 2  
10 Anella Ave.  
Castle Hill, NSW 2154  
Telephone: 6128999977  
Fax: 6128999742

**United Kingdom**  
Aldrich Chemical Co. Ltd.  
The Old Brickyard, New Road  
Gillingham, Dorset SP8 4JL  
Telephone: 44747822211  
Fax: 44747823779

**Brazil**  
Aldrich-Brazil  
Rua Sabara, 566-conj.53  
01239-010 Sao Paulo, SP  
Telephone: 55112311866  
Fax: 55112579079

**Germany**  
Aldrich-Chemie GmbH & Co.KG  
Riedstrasse 2, D-89555 Steinheim  
Telephone: 497329970  
Fax: 4973291939





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

CUST#: 523216  
PO#: UNF64115

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

CATALOG #: 30872-2  
NAME: BENZENE-D6, 99.6 ATOM % D  
(1PK=5 X 0.5ML)

EXHILARATION, NERVOUS EXCITATION AND/OR GIDDINESS, DEPRESSION, DROWSINESS, OR FATIGUE. THE VICTIM MAY EXPERIENCE TIGHTNESS IN THE CHEST, BREATHLESSNESS AND LOSS OF CONSCIOUSNESS. TREMORS, CONVULSIONS AND DEATH DUE TO RESPIRATORY PARALYSIS OR CIRCULATORY COLLAPSE CAN OCCUR IN A FEW MINUTES TO SEVERAL HOURS FOLLOWING SEVERE EXPOSURES. ASPIRATION OF SMALL AMOUNTS OF LIQUID IMMEDIATELY CAUSES PULMONARY EDEMA AND HEMORRHAGE OF PULMONARY TISSUE. DIRECT SKIN CONTACT MAY CAUSE ERYTHEMA. REPEATED OR PROLONGED SKIN CONTACT MAY RESULT IN DRYING, SCALING DERMATITIS OR DEVELOPMENT OF SECONDARY SKIN INFECTIONS. THE CHIEF TARGET ORGAN IS THE HEMATOPOIETIC SYSTEM. BLEEDING FROM THE NOSE, GUMS OR MUCOUS MEMBRANES AND THE DEVELOPMENT OF PURPURIC SPOTS, PANCYTOPENIA, LEUKOPENIA, THROMBOCYTOPENIA, APLASTIC ANEMIA AND LEUKEMIA MAY OCCUR AS THE CONDITION PROGRESSES. THE BONE MARROW MAY APPEAR NORMAL, APLASTIC OR HYPERPLASTIC, AND MAY NOT CORRELATE WITH PERIPHERAL BLOOD-FORMING TISSUES. THE ONSET OF EFFECTS OF PROLONGED BENZENE EXPOSURE MAY BE DELAYED FOR MANY MONTHS OR YEARS AFTER THE ACTUAL EXPOSURE HAS CEASED.

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

DATA NOT YET AVAILABLE.

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

BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

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

EUROPEAN INFORMATION

HIGHLY FLAMMABLE

TOXIC

R 45

MAY CAUSE CANCER.

R 48/23/24/25

TOXIC: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

HIGHLY FLAMMABLE

S 16

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

S 53

AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

S 45

CONTINUED ON NEXT PAGE

Holland  
Aldrich Chemie  
Telephone: 3238991301  
Fax: 3238991311

Spain  
Aldrich Quimica  
Apt. de Correos, 161  
28100 Alcobendas, Madrid  
Telephone: 3416619977  
Fax: 3416619642

Italy  
Aldrich Chimica  
Via Gallarate, 154  
20151 Milano  
Telephone: 39233417340  
Fax: 39238010737

Switzerland  
Aldrich Chemie  
Industriestrasse 25  
CH-9470 Buchs  
Telephone: 41817552723  
Fax: 41817567420

Belgium  
Aldrich Chemie  
K. Cardijnplein 8  
B-2880 Bornem  
Telephone: 3238991301  
Fax: 3238991311

Czech Republic  
Aldrich, s.r.o.  
Krizkova, 27  
180 00 Prague-8  
Telephone: 42224225285  
Fax: 42224224031

India  
Aldrich-India  
B4/158 Safdarjung Enclave  
New Delhi 110 029  
Telephone: 91116886872  
Fax: 91116886873

8526

France  
Aldrich-Chimie S.a.r.l.  
L'Isle D'Abeau Chesnes  
B.P. 701  
38297 St. Quentin Fallavier  
Cedex  
Telephone: 3374822800

Japan  
Aldrich Japan  
Kyodo Bldg. Shinkarata  
10 Kanda-Mikuracho  
Chiyoda-Ku, Tokyo  
Telephone: 81332580155  
Fax: 81332580157

Australia  
Aldrich Chemicals  
Unit 2  
10 Anella Ave.  
Castle Hill, NSW 2154  
Telephone: 6128999977  
Fax: 6128999742

United Kingdom  
Aldrich Chemical Co. Ltd.  
The Old Brickyard, New Road  
Gillingham, Dorset SP8 4JL  
Telephone: 44747822211  
Fax: 44747823779

Brazil  
Aldrich-Brazil  
Rua Sabara, 566-conj.53  
01239-010 Sao Paulo, SP  
Telephone: 55112311866  
Fax: 55112579079

Germany  
Aldrich-Chemie GmbH & Co.KG  
Riedstrasse 2, D-89555 Steinheim  
Telephone: 497329970  
Fax: 4973291939



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

CUST#: 523216  
PO#: UNF64115

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

CATALOG #: 30872-2  
NAME: BENZENE-D6, 99.6 ATOM % D  
(1PK=5 X 0.5ML)

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

TLV AND SOURCE

FOR BENZENE:

ACGIH TLV-TWA: 10 PPM.

OSHA PEL: 8H TWA 1 PPM; STEL: 5 PPM (15 MIN.).

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. 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 1996 ALDRICH CHEMICAL CO, INC.  
LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

**Holland**  
Aldrich Chemie  
Telephone: 3238991301  
Fax: 3238991311

**Spain**  
Aldrich Quimica  
Apt. de Correos, 161  
28100 Alcobendas, Madrid  
Telephone: 3416619977  
Fax: 3416619642

**Italy**  
Aldrich Chimica  
Via Gallarate, 154  
20151 Milano  
Telephone: 39233417340  
Fax: 39238010737

**Switzerland**  
Aldrich Chemie  
Industriestrasse 25  
CH-9470 Buchs  
Telephone: 41817552723  
Fax: 41817567420

**Belgium**  
Aldrich Chemie  
K. Cardijnplein 8  
B-2080 Bornem  
Telephone: 3238991301  
Fax: 3238991311

**Czech Republic**  
Aldrich, s.r.o.  
Krizkova, 27  
180 00 Prague-8  
Telephone: 42224225285  
Fax: 42224224031

**India**  
Aldrich-India  
B4/158 Safdarjung Enclave  
New Delhi 110 029  
Telephone: 91116886872  
Fax: 91116886873

8527

**France**  
Aldrich-Chimie S.a.r.l.  
L'Isle D'Abeau Chesnes  
B.P. 701  
38297 St. Quentin Fallavier  
Cedex  
Telephone: 3374822800

**Japan**  
Aldrich Japan  
Kyodo Bldg. Shinkanda  
10 Kanda-Mikuracho  
Chiyoda-Ku, Tokyo  
Telephone: 81332580155  
Fax: 81332580157

**Australia**  
Aldrich Chemicals  
Unit 2  
10 Anella Ave.  
Castle Hill, NSW 2154  
Telephone: 6128999977  
Fax: 6128999742

**United Kingdom**  
Aldrich Chemical Co. Ltd.  
The Old Brickyard, New Road  
Gillingham, Dorset SP8 4JL  
Telephone: 44747822211  
Fax: 44747823779

**Brazil**  
Aldrich-Brazil  
Rua Sabara, 566-conj.53  
01239-010 Sao Paulo, SP  
Telephone: 55112311866  
Fax: 55112579079

**Germany**  
Aldrich-Chemie GmbH & Co.KG  
Riedstrasse 2, D-89555 Steinheim  
Telephone: 497329970  
Fax: 4973291939