



chemists helping chemists in research & industry

aldrich chemical co.

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
SCHOOLCRAFT COLLEGE
18600 HAGGERTY ROAD
LIVONIA MI 48152

DATE: 08/06/90
CUST#: 938609
PO#: P0066012

MATERIAL SAFETY DATA SHEET

PAGE 1

IDENTIFICATION

PRODUCT #: 18738-0
CAS #: 64-17-5
MF: C2H6O

NAME: ETHYL ALCOHOL, DENATURED

SYNONYMS

ABSOLUTE ETHANOL * AETHANOL (GERMAN) * AETHYLALKOHOL (GERMAN) *
ALCOHOL * ALCOHOL, ANHYDROUS * ALCOHOL DEHYDRATED * ALCOOL ETHYLIQUE
(FRENCH) * ALCOOL ETILICO (ITALIAN) * ALGRAIN * ALKOHOL (GERMAN) *
ALKOHOLU ETYLOWEGO (POLISH) * ANHYDROL * COLOGNE SPIRIT * COLOGNE
SPIRITS (DOT) * ETANOLO (ITALIAN) * ETHANOL * ETHANOL (DOT, OSHA) *
ETHANOL, SOLUTION (DOT) * ETHANOL 200 PROOF * ETHYL ALCOHOL (ACGIH,
DOT, OSHA) * ETHYLALCOHOL (DUTCH) * ETHYL ALCOHOL ANHYDROUS * ETHYL
HYDRATE * ETHYL HYDROXIDE * ETYLOWY ALKOHOL (POLISH) * FERMENTATION
ALCOHOL * GRAIN ALCOHOL * JAYSOL * JAYSOL S * METHYLCARBINOL *
MOLASSES ALCOHOL * NCI-C03134 * POTATO ALCOHOL * SD ALCOHOL 23-
HYDROGEN * SPIRITS OF WINE * SPIRT * TEC SOL * UN 1170 (DOT) *

HAZARDOUS INGREDIENTS

CONTAINS METHYL ALCOHOL, CHEMICAL ABSTRACTS REGISTRY NUMBER 67-56-1.
CONTAINS ETHYL ACETATE, CHEMICAL ABSTRACTS REGISTRY NUMBER 141-78-6.
CONTAINS 2-PROPANOL (ISOPROPYL ALCOHOL), CHEMICAL ABSTRACTS REGISTRY
NUMBER 67-63-0.

TOXICITY HAZARDS

RTECS NO: K06300000

ETHYL ALCOHOL

IRRITATION DATA

SKN-RBT 400 MG OPEN MLD
SKN-RBT 20 MG/24H MOD
EYE-RBT 79 MG
EYE-RBT 500 MG/24H MLD
EYE-RBT 100 MG/4S RINSE MOD

TOXICITY DATA

ORL-CHD LD50: 2000 MG/KG
ORL-HMN LD50: 1400 MG/KG
SCU-INF LD50: 19440 MG/KG
ORL-RAT LD50: 7060 MG/KG
IHL-RAT LC50: 20000 PPM/10H
IPR-RAT LD50: 3600 UG/KG
IVN-RAT LD50: 1440 MG/KG
IAT-RAT LD50: 11 MG/KG
ORL-MUS LD50: 3450 MG/KG
IHL-MUS LC50: 39 GM/M3/4H
IPR-MUS LD50: 933 MG/KG
SCU-MUS LD50: 8285 MG/KG
IVN-MUS LD50: 1973 MG/KG
ORL-RBT LD50: 6300 MG/KG
IPR-RBT LD50: 963 MG/KG
IVN-RBT LD50: 2374 MG/KG
ORL-GPG LD50: 5560 MG/KG
IPR-GPG LD50: 3414 MG/KG

UCDS** 7/22/70
85JCAE -,189,86
AJOPAA 29,1363,46
85JCAE -,189,86
FCTOD7 20,573,82

ATXKAB 17,183,58
NPRI* 1,44,74
AJCPAI 5,466,35
TXAPA9 16,718,70
NPRI* 1,44,74
PHMGBN 2,27,69
TXAPA9 18,60,71
TXAPA9 18,60,71
GISAAA 32(3),31,67
GTPZAB 26(8),53,82
SCCUR* -,5,61
FAONAU 48A,99,70
HBTXAC 1,128,55
HBTXAC 1,130,55
EVHPAZ 61,321,85
EVHPAZ 61,321,85
JIHTAB 23,259,41
EVHPAZ 61,321,85

CONTINUED ON NEXT PAGE

Belgium/Holland
Aldrich Chemie
Boulevard Lambertoni 140 b6
Bd. Lambertoni 140 b6
B-1030 Bruxelles/Brussel
Telephone:
Belgium 114747
Holland 060224748
Telex: 62302 Alchem B
FAX: 022428216

France
Aldrich-Chimie S.r.l.
27, Fosse des Treize
F-67000 Strasbourg
Telephone: 88327010
Telex: 890076 Aldrich F
FAX: 88751285

Italy
Aldrich Chimica S.r.l.
Via Pietro Toselli, 4
20127 Milano
Telephone: 022613689
Telex: 330862 Aldrich I
FAX: 022896301

Japan
Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 032580155
FAX: 032580157

Spain
Aldrich Quimica
Apt. de Correos 161
28100 Alcobendas (Madrid)
Telephone: 916639977
Telex: 22189 SAQS-E
FAX: 916638084

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

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7924 Steinheim
Telephone: 7329870
Telex: 714838 Aldr D
FAX: 0732987139/239



chemists helping chemists in research & industry

aldrich chemical co.

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 2

CUST#: 938609
PO#: P0066012

PRODUCT #: 18738--0
CAS #: 64-17-5
MF: C2H6O

NAME: ETHYL ALCOHOL, DENATURED

TOXICITY HAZARDS

IPR-HAM LD50:5068 MG/KG
IPR-MAM LD50:4300 MG/KG
ACGIH TLV-TWA 1000 PPM 85INAB 5,242.2,86
IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 44,35,88
MSHA STANDARD-AIR:TWA 1000 PPM (1900 MG/M3) DTLVS* 3,103,71
OSHA PEL:8H TWA 1000 PPM (1900 MG/M3) FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 1000 PPM (1900 MG/M3) FEREAC 54,2923,89
NOHS 1974: HZD 31500; NIS 430; TNF 157709; NOS 242; TNE 2088926
NOES 1983: HZD 31500; NIS 321; TNF 76013; NOS 219; TNE 1752303; TFE 823234

EVHPAZ 61,321,85
TXAPA9 13,358,68

REVIEWS, STANDARDS, AND REGULATIONS

EPA GENETOX PROGRAM 1988, POSITIVE: RODENT DOMINANT LETHAL
EPA GENETOX PROGRAM 1988, NEGATIVE: ASPERGILLUS-FORWARD MUTATION; SHE-CLONAL ASSAY
EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-RLV F344 RAT EMBRYO
EPA GENETOX PROGRAM 1988, NEGATIVE: IN VITRO CYTOGENETICS-NONHUMAN; MAMMALIAN MICRONUCLEUS
EPA GENETOX PROGRAM 1988, NEGATIVE: N CRASSA-ANEUPLOIDY; HISTIDINE REVERSION-AMES TEST
EPA GENETOX PROGRAM 1988, NEGATIVE: IN VITRO SCE-HUMAN LYMPHOCYTES; IN VITRO SCE-HUMAN
EPA GENETOX PROGRAM 1988, NEGATIVE: IN VITRO SCE-NONHUMAN; SPERM MORPHOLOGY-MOUSE
EPA GENETOX PROGRAM 1988, NEGATIVE/LIMITED: CARCINOGENICITY-MOUSE/RAT
EPA TSCA CHEMICAL INVENTORY, 1989
EPA TSCA SECTION 8(E) STATUS REPORT BEHQ-0786-0617
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1990
NIOSH ANALYTICAL METHODS: SEE ALCOHOLS I, 1400;
NIOSH ANALYTICAL METHODS: SEE 2-BUTANONE, ETHANOL, AND TOLUENE IN BLOOD, 8002

TARGET ORGAN DATA

BEHAVIORAL (SLEEP)
BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)
BEHAVIORAL (ATAXIA)
BEHAVIORAL (ANTIPSYCHOTIC) -
BEHAVIORAL (HEADACHE)
BEHAVIORAL (CHANGE IN PSYCHOPHYSIOLOGICAL TESTS)
LUNGS, THORAX OR RESPIRATION (CHRONIC PULMONARY OEDEMA OR CONGESTION)
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)
GASTROINTESTINAL (ALTERATION IN GASTRIC SECRETION)
GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA)
GASTROINTESTINAL (NAUSEA OR VOMITING)
GASTROINTESTINAL (OTHER CHANGES)
LIVER (TUMORS)
BLOOD (LYMPHOMA INCLUDING HODGKIN'S DISEASE)
PATERNAL EFFECTS (TESTES, EPIDIDYMIS, SPERM DUCT)

CONTINUED ON NEXT PAGE

Belgium/Holland
Aldrich Chemie
Boulevard Lambertmont 140 b6
1030 Bruxelles/Brussel
Telephone: 114747
Telex: 62302 Alchem B
K: 022428216

France
Aldrich-Chimie S.a.r.l.
27, Fosse des Treize
F-67000 Strasbourg
Telephone: 88327010
Telex: 890078 Aldrich F
FAX: 88751283

Italy
Aldrich Chimica S.r.l.
Via Pietro Toselli, 4
20127 Milano
Telephone: 022613689
Telex: 330862 Aldrich I
FAX: 022896301

Japan
Aldrich Japan
Kyodo Bldg. Shinkanda
10 Kanda-Mikuracho
Chiyoda-Ku, Tokyo
Telephone: 032580155
FAX: 032580157

Spain
Aldrich Quimica
Apt. de Corcos 161
28100 Alcobendas (Madrid)
Telephone: 916639977
Telex: 22189 SAQS-E
FAX: 916638084

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

West Germany
Aldrich-Chemie GmbH & Co. KG
D-7924 Steinheim
Telephone: 7329870
Telex: 714838 Aldri D
FAX: 0732987139/239