



chemists helping chemists in research & industry

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DATE: 09/19/95
CUST#: 938609
PO#: 80560

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 1

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

PRODUCT #: 17995-7 NAME: METHYL ALCOHOL, 99+%

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

CAS #: 67-56-1
MF: CH₄O

SYNONYMS

ALCOOL METHYLIQUE (FRENCH) * ALCOOL METILICO (ITALIAN) * CARBINOL *
COLONIAL SPIRIT * COLUMBIAN SPIRIT * METANOLO (ITALIAN) * METHANOL
(DOT) * METHYL ALCOHOL (ACGIH, DOT, OSHA) * METHYLOL * METHYLALCOHOL
(GERMAN) * METHYL HYDRATE * METHYL HYDROXIDE * METYLOWY ALKOHOL
(POLISH) * MONOHYDROXYMETHANE * PYROXYLIC SPIRIT * RCRA WASTE NUMBER
U154 * UN1230 (DOT) * WOOD ALCOHOL * WOOD NAPHTHA * WOOD SPIRIT *

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE (USA DEFINITION)
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)

TOXIC

TOXIC BY INHALATION AND IF SWALLOWED.

IRRITATING TO EYES AND SKIN.

TARGET ORGAN(S):

EYES

KIDNEYS

KEEP CONTAINER TIGHTLY CLOSED.

KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.

DO NOT BREATHE SPRAY.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE

IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

HYGROSCOPIC

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

CONTINUED ON NEXT PAGE

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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

PRODUCT #: 179957
MF: CH₄O

NAME: METHYL ALCOHOL, 99+%

CUST#: 938609
PO#: 80560

RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
DISCARD CONTAMINATED CLOTHING AND SHOES.

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

EXTINGUISHING MEDIA

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.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EXTREMELY FLAMMABLE.

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK.

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 DRY-LIME, SAND, OR SODA ASH. PLACE IN COVERED CONTAINERS

USING NON-SPARKING TOOLS AND 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.
MECHANICAL EXHAUST REQUIRED.

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PAGE 3

PRODUCT #: 179957
MF: CH4O

NAME: METHYL ALCOHOL, 99+%

CUST#: 938609
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SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
DO NOT USE IF SKIN IS CUT OR SCRATCHED. WASH THOROUGHLY AFTER
HANDLING.
TOXIC.
IRRITANT.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR

COLORLESS LIQUID

BOILING POINT: 64.7 C

MELTING POINT: -98 C

FLASHPOINT 52 F

11C

AUTOIGNITION TEMPERATURE: 725 F

UPPER EXPLOSION LEVEL:

36% 384C

LOWER EXPLOSION LEVEL:

6%

VAPOR PRESSURE: 97.68MM 20 C

410MM 50 C

VAPOR DENSITY: 1.1

SPECIFIC GRAVITY: 0.791

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

STABILITY

STABLE.

INCOMPATIBILITIES

ACIDS

ACID CHLORIDES

ACID ANHYDRIDES

OXIDIZING AGENTS

REDUCING AGENTS

ALKALI METALS

PROTECT FROM MOISTURE.

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PAGE 4

PRODUCT #: 179957
MF: CH4O

NAME: METHYL ALCOHOL, 99+%

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HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

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

ACUTE EFFECTS

HARMFUL IF INHALED.
HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
EXPOSURE CAN CAUSE:
GASTROINTESTINAL DISTURBANCES
MAY CAUSE CONVULSIONS.
TARGET ORGAN(S):
EYES
KIDNEYS
LIVER
HEART

RTECS NO: PC1400000

IRRITATION DATA

SKN-RBT 20 MG/24H MOD
EYE-RBT 40 MG MOD
EYE-RBT 100 MG/24H MOD

TOXICITY DATA

ORL-MAN LDLO:6422 MG/KG
ORL-HMN LDLO:428 MG/KG
ORL-HMN LDLO:143 MG/KG
UNR-MAN LDLO:868 MG/KG
ORL-RAT LD50:5628 MG/KG
IHL-RAT LC50:64000 PPM/4H
IPR-RAT LD50:7529 MG/KG
IVN-RAT LD50:2131 MG/KG
ORL-MUS LD50:7300 MG/KG
IPR-MUS LD50:10765 MG/KG

85JCAE -,187,86
UCDS** 3/24/70
85JCAE -,187,86

CMAJAX 128,14,83
NP IRI* 1,74,74
34ZIAG -,382,69
85DCAI 2,73,70
GTPZAB 19(11),27,75
NP IRI* 1,74,74
EVHPAZ 61,321,85
EVHPAZ 61,321,85
TXCYAC 25,271,82
EVHPAZ 61,321,85

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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

PRODUCT #: 179957
MF: CH4O

NAME: METHYL ALCOHOL, 99+%

CUST#: 938609
PO#: 80560

SCU-MUS LD50:9800 MG/KG
IVN-MUS LD50:4710 MG/KG
ORL-MKY LD50:7 GM/KG
ORL-RBT LD50:14200 MG/KG
SKN-RBT LD50:15800 MG/KG
IPR-RBT LD50:1826 MG/KG
IVN-RBT LD50:8907 MG/KG
IPR-GPG LD50:3556 MG/KG
IPR-HAM LD50:8555 MG/KG

TXAPA9 18,185,71
EVHPAZ 61,321,85
TXAPA9 3,202,61
FAONAU 48A,105,70
NPIRI* 1,74,74
EVHPAZ 61,321,85
EVHPAZ 61,321,85
EVHPAZ 61,321,85
EVHPAZ 61,321,85

TARGET ORGAN DATA

SENSE ORGANS AND SPECIAL SENSES (OPTIC NERVE NEUROPATHY)
SENSE ORGANS AND SPECIAL SENSES (VISUAL FIELD CHANGES)
BEHAVIORAL (HEADACHE)
LUNGS, THORAX OR RESPIRATION (DYSPPAE)
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)
GASTROINTESTINAL (NAUSEA OR VOMITING)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CENTRAL NERVOUS SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
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 - - - - -

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 - - - - -

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PAGE 6

PRODUCT #: 179957
MF: CH4O

NAME: METHYL ALCOHOL, 99+%

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REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 200 PPM; STEL 250 PPM (SKIN) 85INAB 6,903,91
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FEREAC 54,7740,89
MSHA STANDARD-AIR: TWA 200 PPM (260 MG/M3) (SKIN)
DTLVS* 3,155,71
OSHA PEL (GEN INDU): 8H TWA 200 PPM (260 MG/M3)
CFRGR 29,1910,1000,94
OSHA PEL (CONSTRUC): 8H TWA 200 PPM (260 MG/M3)
CFRGR 29,1926,55,94
OSHA PEL (SHIPYARD): 8H TWA 200 PPM (260 MG/M3)
CFRGR 29,1915,1000,93
OSHA PEL (FED CONT): 8H TWA 200 PPM (260 MG/M3)
CFRGR 41,50-204,50,94
DEL-ARAB REPUBLIC OF EGYPT: TWA 200 PPM (260 MG/M3); SKIN JAN93
DEL-AUSTRALIA: TWA 200 PPM (260 MG/M3); STEL 250 PPM; SKIN JAN93
DEL-BELGIUM: TWA 200 PPM (260 MG/M3); STEL 250 PPM; SKIN JAN93
DEL-CZECHOSLOVAKIA: TWA 100 MG/M3; STEL 500 MG/M3 JAN93
DEL-DENMARK: TWA 200 PPM (260 MG/M3); SKIN JAN93
DEL-FINLAND: TWA 200 PPM (260 MG/M3); STEL 250 PPM; SKIN JAN93
DEL-FRANCE: TWA 200 PPM (260 MG/M3); STEL 1000 PPM (1300 MG/M3) JAN93
DEL-GERMANY: TWA 200 PPM (260 MG/M3); SKIN JAN93
DEL-HUNGARY: TWA 50 MG/M3; STEL 100 MG/M3; SKIN JAN93
DEL-JAPAN: TWA 200 PPM (260 MG/M3); SKIN JAN93
DEL-THE NETHERLANDS: TWA 200 PPM (260 MG/M3); SKIN JAN93
DEL-THE PHILIPPINES: TWA 200 PPM (260 MG/M3) JAN93
DEL-POLAND: TWA 100 MG/M3 JAN93
DEL-RUSSIA: TWA 200 PPM; STEL 5 MG/M3; SKIN JAN93
DEL-SWEDEN: TWA 200 PPM (250 MG/M3); STEL 250 PPM (350 MG/M3); SKIN JAN93
DEL-SWITZERLAND: TWA 200 PPM (260 MG/M3); STEL 400 PPM; SKIN JAN93
DEL-THAILAND: TWA 200 PPM (260 MG/M3) JAN93
DEL-TURKEY: TWA 200 PPM (260 MG/M3) JAN93
DEL-UNITED KINGDOM: TWA 200 PPM (260 MG/M3); STEL 250 PPM; SKIN JAN93
DEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV
DEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV
NIOSH REL TO METHANOL-AIR: 10H TWA 200 PPM (SK); STEL 250 PPM (SK)
NIOSH* DHS #92-100,92
NOHS 1974: HZD 45930; NIS 344; TNF 78840; NOS 203; TNE 737242
NOES 1983: HZD 45930; NIS 373; TNF 101075; NOS 225; TNE 1620617; TFE 388352
EPA GENETOX PROGRAM 1988, NEGATIVE: SHE-CLONAL ASSAY; CELL

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

PAGE 7

PRODUCT #: 179957
MF: CH4O

NAME: METHYL ALCOHOL, 99+%

CUST#: 938609
PO#: 80560

TRANSFORM.-SA7/SHE
EPA GENETOX PROGRAM 1988, NEGATIVE: N CRASSA-ANEUPLOIDY; IN VITRO
SCE-NONHUMAN
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA SECTION 8(E) RISK NOTIFICATION, 8EHQ-0892-8989
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1995
NIOSH ANALYTICAL METHOD, 1994: METHANOL, 2000
CARCINOGENESIS STUDIES;SELECTED, JANUARY 1995
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

SECTION 16. - - - - - OTHER INFORMATION- - - - -

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