



chemists helping chemists in research & industry

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DATE: 12/09/88  
CUST # 938609 P.O. # 61652

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

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IDENTIFICATION

PRODUCT # 17933-7      NAME: METHYL ALCOHOL, 99.9%, A.C.S. REAGENT  
CAS # 67-56-1  
MF: CH4O

SYNONYMS

ALCOOL METHYLIQUE (FRENCH) \* ALCOOL METILICO (ITALIAN) \* CARBINOL \*  
COLONIAL SPIRIT \* COLUMBIAN SPIRIT \* COLUMBIAN SPIRITS (DOT) \*  
METHANOL (DOT) \* METANOLO (ITALIAN) \* METHYL ALCOHOL \* METHYL ALCOHOL  
(ACGIH, DOT) \* METHYLOL \* METHYLALCOHOL (GERMAN) \* METHYL HYDRATE \*  
METHYL HYDROXIDE \* METYLOWY ALKOHOL (POLISH) \* MONOHYDROXYMETHANE \*  
PYROXYLIC SPIRIT \* RCRA WASTE NUMBER U154 \* UN 1230 (DOT) \* WOOD  
ALCOHOL \* WOOD ALCOHOL (DOT) \* WOOD NAPHTHA \* WOOD SPIRIT \*

TOXICITY HAZARDS

RTECS # PC1400000

METHANOL

IRRITATION DATA

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

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

TOXICITY DATA

ORL-MAN LDLO:6422 UG/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  
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

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

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 200 PPM; STEL 250 PPM (SKIN) 85INA8 5,372,86  
MSHA STANDARD-AIR:TWA 200 PPM (260 MG/M3) (SKIN) DTLVS\* 3,155,71  
OSHA STANDARD-AIR:TWA 200 PPM FEREAC 39,23540,74  
NIOSH REL TO METHYL ALCOHOL-AIR:TWA 200 PPM;CL 800 PPM/15M MMWR\*\*  
34(1S),21S,85

EPA GENETOX PROGRAM 1988, NEGATIVE: SHE-CLONAL ASSAY; CELL TRANSFORM.-  
SA7/SHE

EPA GENETOX PROGRAM 1988, NEGATIVE: N CRASSA-ANEUPLOIDY; IN VITRO SCE-  
NONHUMAN

EPA TSCA CHEMICAL INVENTORY, 1986

EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0378-0108

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1988

NIOSH ANALYTICAL METHODS: SEE METHANOL, 2000

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NAME: METHYL ALCOHOL, 99.9%, A.C.S. REAGENT

MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,  
82

**TARGET ORGAN DATA**

BRAIN AND COVERINGS (CHANGES IN CIRCULATION)  
SENSE ORGANS AND SPECIAL SENSES (OPTIC NERVE NEUROPATHY)  
SENSE ORGANS AND SPECIAL SENSES (VISUAL FIELD CHANGES)  
BEHAVIORAL (HEADACHE)  
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)  
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)  
GASTROINTESTINAL (NAUSEA OR VOMITING)

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 SWALLOWED.  
HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.  
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,  
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND  
VOMITING.

**EXPOSURE CAN CAUSE:**

DAMAGE TO THE EYES  
DAMAGE TO THE LIVER  
DAMAGE TO THE HEART  
DAMAGE TO THE KIDNEYS  
GASTROINTESTINAL DISTURBANCES  
MAY CAUSE CONVULSIONS.

**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.  
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.  
CALL A PHYSICIAN.  
DISCARD CONTAMINATED CLOTHING AND SHOES.

**ADDITIONAL INFORMATION**

METHYL ALCOHOL MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. CANNOT  
BE MADE NON-POISONOUS.

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

MELTING POINT: -98 C  
BOILING POINT: 64.8 C  
SPECIFIC GRAVITY: 0.791  
VAPOR DENSITY: 1.1  
VAPOR PRESSURE: 97.68 MM @ 20 C

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

AUTO IGNITION TEMP.: 725 F  
LOWER EXPLOSION LEVEL: 6%  
UPPER EXPLOSION LEVEL: 36%  
FLASH POINT: 52 F

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**EXTINGUISHING MEDIA**

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

**SPECIAL FIRE FIGHTING PROCEDURES**

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

EXTREMELY FLAMMABLE.

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

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

**INCOMPATIBILITIES**

ACIDS

ACID CHLORIDES

ACID ANHYDRIDES

OXIDIZING AGENTS

REDUCING AGENTS

ALKALI METALS

**HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS**

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

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

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

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.

**WASTE DISPOSAL METHOD**

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 & LOCAL LAWS.

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

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

MECHANICAL EXHAUST REQUIRED.

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.

POISON.

KEEP TIGHTLY CLOSED.

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

HYGROSCOPIC.

STORE IN A COOL DRY PLACE.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

NOT APPLICABLE

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