

GENIUM PUBLISHING CORP -- METHYL ALCOHOL -- 6810-00-275-6010

===== Product Identification =====

Product ID:METHYL ALCOHOL

MSDS Date:11/01/1991

FSC:6810

NIIN:00-275-6010

MSDS Number: CCLQJ

=== Responsible Party ===

Company Name:GENIUM PUBLISHING CORP

Address:1145 CATALYN ST

City:SCHENECTADY

State:NY

ZIP:12303-1836

Country:US

Info Phone Num:518-377-8854

Emergency Phone Num:518-377-8854

CAGE:5Z768

=

== Contractor Identification ==

Company Name:GENIUM PUBLISHING CORPORATION

Address:1145 CATALYN ST

Box:City:SCHENECTADY

State:NY

ZIP:12303-1836

Country:US

Phone:518-377-8854

CAGE:5Z768

Company Name:TELECHEM INTERNATIONAL, INC

Address:524 E WEDDELL DRIVE SUITE 3

Box:City:SUNNYVALE

State:CA

ZIP:94089-2115

Country:US

Phone:916-941-3688

Contract Num:SP0450-01-M-D454

CAGE:1KH20

===== Composition/Information on Ingredients =====

Ingred Name:METHYL ALCOHOL

CAS:67-56-1

RTECS #:PC140

0000

= Wt:100.

Code:F

Other REC Limits:NONE RECOMMENDED

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:METHYL ALCOHOL IS TOXIC MAINLY TO THE NERVOUS SYSTEM, PARTICULARLY OPTIC NERVES, WHERE DAMAGE CAN PROGRESS TO PERMANENT BLINDNESS. POISONING IN METABOLIC ACIDOSIS. METHYL ALCO

HOL OXIDIZES IN THE BODY TO FORM FORMALDEHYDE & FORMIC ACID. THESE DERIVATIVES ARE BELIEVED RESPONSIBLE FOR MANY OF METHYL ALCOHOL'S POISONOUS & TOXIC EFFECTS. SINCE IT IS ELIMINATED SLOWLY FROM THE BODY, METHYL ALCOHOL IS CONSIDERED A CUMULATIVE POISON. THE FATAL INGESTION DOSE IS 100-250 ML, ALTHOUGH DEATH IS REPORTED FROM LESS THAN 33ML. TARGET ORGANS: EYES,CENTRAL NERVOUS SYS,SKIN, DIGESTIVE TRACT.

Explanation of Carcinogenicity:IN 1990 REPORTS, THE IARC, NTP & OSHA DO

NOT LIST METHYL ALCOHOL AS A CARCINOGEN.

Effects of Overexposure:INHAL: EYE/NOSE IRRIT,HEAD,FTG,NAU,VISUAL IMPAIR(OPTIC NERVE NEUROPATHY,VISUAL FIELD CHANGES),BLIND,ACIDOSIS,CONVUL,CIRCUL COLLAPSE,RESP FAILURE,DEATH.INGEST:GI IRRIT,KIDNEY IMPAIR.SKIN:COLDNESS FEEL,D RYNESS,CRACK,DERM.ABSORB THRU SKIN,HEAD,FTG,VISUAL DISTURB.EYE:IRRIT,WATERING,INFLAMM LIDS,PAIN SENS TO LIGHT.

Medical Cond Aggravated by Exposure:NONE REPORTED.

===== First Aid Measures =====

First Aid:EYE:LIFT EYELIDS & FLUSH IMMEDIATELY & CONTINUOUSLY WITH FLOODING AMOUNTS OF WATER UNTIL TRANSPORTED TO AN EMERGENCY MEDICAL FACILITY. DO NOT LET VICTIM RUB OR KEEP EYES TIGHTLY SHUT. CONSULT A PHYSICIAN IMMEDIATELY. SKIN:QUICKLY REMOVE CONTAMINATED CLOTHING. RINSE W/FLOODING AMTS OF WATER FOR AT LEAST 15MINS. FOR RED/BLISTERED SKIN, SEE PHYSICIAN. WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR & SUPPORT BREATH AS NEEDED.

|

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. CONSCIOUS & ALERT GIVE 1-2 GLASSES OF WATER THEN INDUCE VOMITING.

===== Fire Fighting Measures =====

Flash Point Method:CC

Flash Point:=12.2C, 54.F

Autoignition Temp:=470.C, 878.F

Lower Limits:6

Upper Limits:36.5

Extinguishing Media:SM:DRY CHEM,CO2,WATERSPRAY,ALCOHOL-RESIST FOAM.LG:WATERSPRAY,FOG,ALCHOL-RESIST FOAM.

Fire Fighting Procedures:DON'T SCATTER MATERIAL W/ANY MORE WATER THAN

NEEDED TO EXTINGUISH FIRE.WEAR SCBA W/FULL FACEPIECE OPERATED IN PRESSURE-DEMAND/+PRESS MODE & FULL PROT CLOTH.APPLY COOL(SUPP)

Unusual Fire/Explosion Hazard:DANGEROUS FIRE HAZARD WHEN EXPOSED TO HEAT/FLAME/OXIDIZERS.EXPLOSIVE IN ITS VAPOR FORM WHEN EXPOSED TO HEAT/FLAME. VAPORS MAY TRAVEL TO IGNITION SOURCE & FLASH BACK.

===== Accidental Release Measures =====

Spill Release Procedures:NOTIFY SAFETY PERSONNEL. ISOLATE AREA, DENY EN

TRY & STAY UPWIND. SHUT OFF ALL IGNITION SOURCES.WEAR FULLY ENCAPSULATING VAPOR PROTECTIVE CLOTHING. WATERSPRAY MAY REDUCE VAPOR, BUT NOT PREVENT IGNIT ION IN CLOSED SPACES. SM:USE NONSPARKING TOOLS TO TAKE UP W/EARTH/SAND/VERMICULITE OR OTHER ABSORBENT, NONCOMBUSTIBLE MATERIAL & PLACE IN SUITABLE CONTAINER..LG:DIKE.FOLLOW OSHA REGS 29CFR1910.120.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handlin

g and Storage Precautions:NEVER EAT/DRINK/SMOKE IN WORKAREA.AVOID PHYSICAL DAMAGE TO CONTAINERS. STORE IN COOL DRY WELL-VENTILATED FLAMMABLE STORAGE AREA AWAY FROM STRONG OXIDIZERS & OTHER INCOMPATIBLES.TO PREVENT STATIC SPARK ,GROUND EQUIP. USED IN METHYL ALCOHOL STORAGE, MANUFACTURE & TRANSPORTATION. USE NON-SPARKING TOOLS

Other Precautions:1STAID:AFT 1STAID GET APPROPRIATE MED SUPPORT.DR:CONSIDER 10%ETHANOL IN D5W INTRAVEN TO MAINTIAN EHTYL ALCOHOL BLOOD LEVER 100M

G/DL.CHECK FORMIC ACID IN URINE,MEASURE
BLOOD PH,PLASMA BICARBONATE.PERIO DIC EXAM OF
WORKER-KID/NERV/LIVER/VISUAL

===== Exposure Controls/Personal Protection =====

Respiratory Protection:GET PROFESSIONAL ADVICE PRIOR TO
SELECTION/USE.FOLLOW 29CFR1910.134.WEAR NIOSH APPROVED
RESPIRATOR.SELECTION BASED ON SUITABILITY TO PROVIDE ADEQUATE
PROTECTION FOR WORK CONDITIONS, LEVEL OF CONTAMINATION,
SUFFICIENT OXYGEN. SCBA-EMERGENCY/NONROUTINE OPERATIONS.

AIR-PURIFYING RESPIRATION DO NOT PROTECT WORKERS IN OXYGEN DEFIC.
ATMOSPHERES

Ventilation:PROVIDE GEN/LOC EXPLO-PROOF EXHAU VENTI SYS TO MAINTAIN
AIRBORNE CONC BEL OSHA PELS.LOC EXHAU PREFER.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:PROT EYEGLASS,CHEM SAF GOGG PER OSHA REG

Other Protective Equipment:SINCE CONTACT LENS USE IN INDUSTRY
CONTROVERSIAL ESTABLISH OWN POLICY. IMPERVIOUS
BOOTS,APRONS,GAUNTLETS. EMERGENCY EYEWASH STATIONS, SAFETY/QUICK
SHOWERS & WASHING FAC

ILITIES

Work Hygienic Practices:FLAMM/VOLA CAREFULLY DISPO CONTAMIN
CLOTH.SEPARATE WORK/STREET CLOTH.WASH CONTAM CLOTH BEF REUSE.CLEAN
PPE.NEVER EAT, DRINK OR SMOKE IN WORK AREAS. PRACTICE GOOD HYGIENE

Supplemental Safety and Health

ODOR:PUNGENT ODOR WHEN CRUDE & LOW 10PPM ODOR THRESHOLD.

FIREFIGHT:WATER TO SIDES FOR FIRE-EXPO CNTRN TIL FIRE WELL
OUT.STATY AWAY FROM TK ENDS.LEAVE IMMED IF RISING SOUND FROM VENTI
SAF DEVICE/TK DIS COLORATION.BE AWARE OF RUNOFF FIRE
CNTRLM

ETHODS.DON'T RELEASE TO SEWER/WATERWAYS.REMOVE CNTNR FROM
FIRE W/O RISK.

===== Physical/Chemical Properties =====

HCC:F3

Boiling Pt:=64.4C, 148.F

Melt/Freeze Pt:=-97.6C, -144.F

Decomp Temp:Decomp Text:NP

Vapor Pres:29MM @68F

Vapor Density:1.11

Spec Gravity:0.7924 @68F

pH:NP

Viscosity:0.00593P @68F

Evaporation Rate & Reference:NP

Solubility in Water:SOLUBLE.

Appearance and Odor:CLEAR,COLORLESS,VOLATILE LIQ W/SLIGHT ALCOHOL ODOR
WHEN PURE,DISAGREEABLY(SUPP

L

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

BEH2, METALS, OXIDANTS, (CH₃)₃COK, CCL₄+METALS, CHCL₃+HEAT, ZN(C₂H₅)₂, ALKYL
AL SALTS, CH₃COBR, CHCL₃+NAOH, C₃N₃CL₃, HNO₃.

Stability Condition to Avoid: AVOID VAPOR INHALATION & CONTACT WITH
OXIDIZERS & OTHER INCOMPATIBLES. HMIS: ALL IGNITION
SOURCES, FLAME, ETC.

Hazardous Decomposition Products: THERMAL OXIDATIVE DECOMPOSITION OF
METHYL ALCOHOL CAN PRODUCE CARBON OXIDES (CO, CO₂), POSSIBLE
FORMALDEHYDE, ACRID SMOKE, AND IRRITATING FUMES.

===== Disposal Considerations =====

Waste Disposal Methods: CONTACT SUPPLIER OR A LICENSED CONTRACTOR FOR
DETAILED RECOMMENDATIONS. FOLLOW APPLICABLE FEDERAL, STATE, LOCAL
REGULATIONS. RCRA HAZ WASTE #U154. AIR CONTAMINANT (20CFR1910.1000
TABLE Z-1-A).

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.