

QUANTUM CHEMICAL CORPORATION USI DIVISION -- 1100 ETHYL ALCOHOL, USP 190 PROOF --
6810-00-823-8002

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

Product ID:1100 ETHYL ALCOHOL, USP 190 PROOF
MSDS Date:03/10/1994
FSC:6810
NIIN:00-823-8002
MSDS Number: BFQZY
=== Responsible Party ===
Company Name:QUANTUM CHEMICAL CORPORATION USI DIVISION
Address:11500 NORTHLAKE DRIVE
Box:429550
City:CINCINNATI
State:OH
ZIP:452
49
Country:US
Info Phone Num:513-530-6917
Emergency Phone Num:713-479-2873/800-424-9300(CHEMTREC)
Preparer's Name:HSE
CAGE:78918

=== Contractor Identification ===

Company Name:QUANTUM CHEMICAL CORPORATION USI DIVISION
Address:11500 NORTHLAKE DRIVE
Box:429550
City:CINCINNATI
State:OH
ZIP:45249
Country:US
Phone:713-479-2873/800-424-9300(CHEMTREC)
CAGE:78918

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

Ingred Name:ETHYL ALCOHOL (ETHANOL)
CAS:64-17-5
RTECS #:KQ6300000
Fract

ion by Wt: 92.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9495

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 7.5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:FUCHSINBASIC,RED DYE
CAS:3248-93-9
RTECS #:ZE9705000

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

LD50 LC50 Mixture:ACUTE ORAL, RAT LD50=7060MG/KG.

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

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

Hea

lth Hazards Acute and Chronic:INHAL:EXPO >1000PPM

HEAD,DROWS,LASSITUDE,LOSS OF APPETITE,INABILITY TO CONCEN,THROAT IRRIT. INGEST:EFFECTS DEPEND ON AMT/RATE OF CONSUMPTION.SHORT TERM:DRUNK,CNS DEPRESS,NAU,VOMIT,DIARR,LIVER DMG,DEAT H.LONG TERM:LOSS OF APPETITE,WT LOSS,NERVOUSNESS,MEMORY LOSS,MENTAL RETARDATION. EYE:IRRIT. SKIN:IRRIT,DEFATTING.

Explanation of Carcinogenicity:PER MSDS:IARC RELATIONSHIP BETWEEN DRINKING ALCOHOLIC BEV & CANCER OF ORAL CAVITY,PHARYNX,LARYNX

,ESOPHAGUS,LIVER.

Effects of Overexposure:HEADACHE, DROWSINESS, LASSITUDE, LOSS OF APPETITE, INABILITY OF CONCENTRATE, THROAT/EYE/SKIN IRRIT, SKIN DEFATTING, CNS DEPRESS, WT LOSS, NERVOUSNESS, MEMORY LOSS, MENTAL RETARDATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INGEST:IF CONSC/ABLE TO SWALLOW HAVE VICTIM DRINK WATER TO DILUTE.NEVER GIVE ANYTHING BY MOUTH IF UNCONSC/HAV

ING

CONVULSIONS.INDUCE VOMIT ONLY IF ADVISED BY DR/POIS CNTRL CNTR.CALL DR/POIS CNTRL CNTR IMMED. SKIN:IMMED FLUSH W/PLENTY OF WATER WHILE REMOVING CONTAMIN CLOTH. EYE:IMMED FLUSH W/PLENTY OF COOL WATER FOR @LEAST 15MINS.DO NOT PERMIT TO RUB EYES.GET MED ATTN IMMED. INHAL:IMMED MOVE (SUPPL)

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

Flash Point Method:TCC

Flash Point:=15.6C, 60.F

Autoignition Temp:=362.8C, 685.F

Lower Limits:3.3

Upper Limits:19

Ext

inguishing Media:USE DRY CHEMICAL, "ALCOHOL RESISTANT" FOAM, CARBON DIOXIDE.WATER MAY BE INEFFECTIVE.

Fire Fighting Procedures:APPLY WATERSPRAY TO ABSORB SOME HEAT/COOL FIRE-EXPO CNTNRS.IF LEAK/SPILL NOT IGN USE WATERSPRAY TO DISPERSE VAP/PROT PERSONNEL/DIL TO NONFLAMM.WEAR FULL (SUPPL)

Unusual Fire/Explosion Hazard:ETHANOL VAP HEAVIER THAN IAR & MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGN & FLASH BACK.

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

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Spill Release Procedures:DEVELOPE/IMPLEMENT COMPREHENSIVE SPILL RESPONSE PLAN.AVOID UNCONTROLLED RELEASES.WEAR RESP/PROT CLOTH.TURN OFF/REMOVE ALL IGN SOURCES.CONTAIN/TRANSFER TO SECURE CNTNRS.COLECT W/ABSORBENT MEDIA.USER SH OULD DETERMINE IF RELEASE IS REPORTABLE.

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

Handling and Storage Precautions:PROTECT CNTNR FRM PHY DMG.DETACHED/OUTSIDE STORAGE PREFER.INSIDE IAW NFPA 30 APPROVED FLAMM LIQ STORAGE RM/CABI

NET&SP.REMOVE ALL IGN SOURCES.SPRINKLER

Other Precautions:PROD USE W/O PRIOR PAYMENT OF APPLICABLE EXCISE TAX STRICTLY CONTROLLED BY REGS PROMULGATED/ENFORCED BY BUREAU OF ATF,DEPT OF TREASURY;TITLE 27 CODE OF FED REGS.ELECTRICAL INSTALLATIONS IAW ART 501 NA T ELECT CODE.BOND WHEN TRANSF.INDUST USE

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

Respiratory Protection:WHERE ENGINEERING CNTRLS NOT FEASIBLE/SUFFICIENT TO ACHIEVE FULL CONFORMANCE W/ACCEPTAB

LE CRITERIA USE NIOSH/MSHA

APPROVED RESP PROT EQPMT.RESP SHOULD BE SELECTED BASED ON FORM & CONCEN OF CONTAMINANT IN AIR & IAW OSHA 29 CFR 1910.134.

Ventilation:ENGIN CNTRL SHOULD BE USED WHENEVER FEASIBLE TO MAINTAIN CONCEN BEL ACCEPTABLE EXPO CRITERIA INCLUDING NOT LIMITED(SUPP)

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:SAFETY GLASSES ANSI STD Z87.1,CHEM GOGG

Other Protective Equipment:PROTECTIVE CLOTHING IMPERVIOUS TO PRODUCT.

Work Hygienic Practices:WASH CONTAMIN CLOTH

BEF REUSE.SMOKING

PROHIBITED IN STORAGE AREAS.NOT INTENDED/PREMITTED FOR DRINK BEV PURPOSES.

Supplemental Safety and Health

B&MELT PT/VAP PRESS/VAP DEN/AUTO IGN/FLAMM LIMITS FOR PURE ETHYL ALCOHOL. FIREFIGHT:TURN OUT GEAR(FULL BUNKER GEAR),SCBA IN +PRESS MODE W/FULL EYE PROT/FCPC IF EXPO TO SMOKE/FUME/HAZ DECOM PROD. 1STAI D:TO FRESH AIR.STOP BREATH GIVE ART RESP:MOUTH-TO-MOUTH.GET MED ATTN IMMED. VENTI:TO ENCLSR,LOC VENTI,DIL VENTI.

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Physical/Chemical Properties =====

HCC:F2

Boiling Pt:=78.3C, 173.F

Melt/Freeze Pt:=-113.9C, -173.F

Vapor Pres:44.6 @68F

Vapor Density:1.59

Spec Gravity:0.8158 @60F

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR LIQUID WITH ALCOHOL ODOR.

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CONTACT W/ACETYL CHLORIDE OR OTHER OXIDIZING AGENTS MAY RESULT IN VIOLENT REACTION.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.HOWEVER

AVOID HIGH TEMPERATURES & ALL SOURCES OF IGNITION.

Hazardous Decomposition Products:CARBON MONOXIDE & CARBON DIOXIDE CAN FORM UPON COMBUSTION.

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Disposal Considerations =====

Waste Disposal Methods:ALL RECOVERED MATL SHOULD BE PACKAGED/LABELED/TRASNPD/DISPOSE OF/RECLAIM IAW APPLICABLE LAWS/REGS & IN CONFORMANCE W/GOOD ENGINEERING PRACTICES.RECLAIM WHERE POSSIBLE.CNTR HAZ WHEN EMPTIED;OBSERVE ALL PRECAUTIONS.

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