

UNION CARBIDE CORP INDUSTRIAL CHEMICALS DIV -- ETHANOL CDA 19, 190 PROOF --
6810-00-201-0906

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

Product ID:ETHANOL CDA 19, 190 PROOF

MSDS Date:05/16/1989

FSC:6810

NIIN:00-201-0906

MSDS Number: BWGXP

=== Responsible Party ===

Company Name:UNION CARBIDE CORP INDUSTRIAL CHEMICALS DIV

Address:39 OLD RIDGEBURY ROAD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Ph

one Num:800-822-4357

Emergency Phone Num:800-822-4357

CAGE:61637

=== Contractor Identification ===

Company Name:UNION CARBIDE CORP

Address:39 OLD RIDGEBURY ROAD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357/732-563-5522 (MSDS)

CAGE:61637

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

Ingred Name:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 90%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9394

In

Ingredient Name: METHYL ISOBUTYL KETONE (HEXONE) (SARA III)

CAS: 108-10-1

RTECS #: SA9275000

Fraction by Wt: 4%

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 100 PPM

ACGIH TLV: 50 PPM/75 STEL; 9394

EPA Rpt Qty: 5000 LBS

DOT Rpt Qty: 5000 LBS

Ingredient Name: WATER

CAS: 7732-18-5

RTECS #: ZC0110000

Fraction by Wt: 5%

Other REC Limits: NONE RECOMMENDED

Ingredient Name: GASOLINE UNLEADED

Fraction by Wt: 1%

Other REC Limits: NONE RECOMMENDED

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

Routes of En

try: Inhalation: YES Skin: YES Ingestion: YES

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

Health Hazards Acute and

Chronic: ACUTE: INGEST: DIZZ, FAINTNESS, DROWS, DECREASED
AWARENESS/RESPONSIVENESS, EUPHORIA, AB DISCOMFORT, NAU, VOMIT, STAG
GAIT, LACK OF COORDINATION, COMA, LUNG INJURY FROM ASPIRATION INTO
LUNG. SKIN: HARMFUL AMTS ABSORBED ACROSS MARKEDLY ABRADED SKIN IS
POSSIBLE, DRY, CRACK, REDNESS. INHAL: BURN SENSATION IN
THROAT/NOSE, (SUPPLEMENTAL)

Effects of Overexposure: INGEST

: DIZZ, FAINT, DROWS, EUPHORIA, ADB
DISCOMFORT, NAUS, VOMIT, COMA, UNCOORDINATION, ASPIRATION.
SKIN: REDNESS, CRACK, DRY. INHAL: BURN SENS
THROAT/NOSE, FAINTNESS, LIVER/KIDNEY DAMAGE. EYE: IRRIT, TEMP
DISCOMFORT, EXCESS BLINKING/TEAR
PRODUCTION, MODERATE CONJUNCTIVITIS-EXCESS OF REDNESS OF CONJUNCTIVA.

Medical Cond Aggravated by Exposure: REPEATED ETHANOL EXPO MAY
EXACERBATE LIVER INJURY PRODUCED FROM OTHER CAUSES. BECAUSE OF ITS
IRRITATING/DEFATTING PROPERTIES MATL MAY AGGRAVATE EXISTING

DERMATITIS.

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

First Aid:INGEST:DON'T INDUCE VOMIT.DON'T GIVE ANYTHING TO DRINK.GET MED ATTN IMMED.SKIN:FLUSH W/WATER.INHAL:REMOVE TO FRESH AIR.NOT BREATH GIVE ART RESP;DIFF BREATH GIVE OXY BY QUAL PERSON.GET MED ATTN.EYES:IM MED FLUSH WELL W/WATER.CONT FOR @LEAST 15MINS.GET MED ATTN FROM OPHTHALMOLOGIST IMMED.DR:SYMP VARY W/BLOOD ALCOHOL LEVELS.SEVE POI W/.3-.5% ABOVE THIS COMATOSE/DEATH.AVOID DEPRESSAN

T

DRUGS/EXCE FLUIDS

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

Flash Point Method:TCC

Flash Point:54.0F,12.2C

Lower Limits:3.3 ETHYLALC

Upper Limits:19 ETHYLALCO

Extinguishing Media:USE WATER SPRAY,CARBON DIOXIDE,DRY CHEMICAL,ALCOHOL-TYP,OR UNIVERSAL-TYP FOAMS APPLIED BY MFG'S RECOMMENDED TECHNIQUES.

Fire Fighting Procedures:USE WATERSPRAY TO COOL FIRE EXPO CONTNRS & STRUCTURES.USE SELF-CONTAINED BREATHING APPARATUS, & PROTECTIVE CLOTHING.

Unusual

Fire/Explosion Hazard:VAP FORM & TRAVEL/MOVE BY AIR

CURRENTS;IGN BY PILOT LIGHTS,OTHER FLAMES,SPARKS,HEATERS,ELECTR EQPMT,STATIC DISCHARGES,OTHER IGN SOURCES @DISTANT LOCATIONS.

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

Spill Release Procedures:EXTINGUISH & DO NOT TURN ON ANY IGNITION SOURCES TIL AREA IS DETERMINED TO BE FREE FROM EXPLOSION OR FIRE HAZARDS. COLLECT LARGE SPILLS FOR DISPOSAL. FLUSH SMALL SPILLS W/WATER.

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

Handling and Storage Precautions:WARNING!FLAMM.HARMFUL IF INHAL/INGEST.CAUSES EYE IRRIT.MAY CAUSE DIZZ,DROWS,LIVER/KIDNEY DAMAGE/LUNG DAMAGE FROM ASPIRATION.DO NOT INDUCE VOMIT.

Other Precautions:DO NOT BREATHE VAP. AVOID CONTACT W/EYES. KEEP CONTAINER CLOSED. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS IN HIGH VAPOR CONCENTRATIONS.

Ventilation:GEN(MECHAN)RM VENTI FOR CONFINE PROD W/IN CLSD
EQPMT.SPECIAL/LOC VENTI NEEDED @PTS WHERE VAP PRESENT IN WORKPLACE
AIR.

Protective Gloves:NEOPRENE.

Eye Protection:SAFETY GLASSES.

Other Protective Equipment:EYEBATH, SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS WELL AFTER HANDLING.

Supplemental Safety and Health

HEALTH HAZ:WATERY/STINGING

EYES,DIZZ,IRRIT,FAINT,DROWS,NAU,VOMIT,LIVER/KIDNEY

DAMAGE.SKIN:RED,DRY,CRACK.EYE:IRRIT,TEMP DISCOM,EXCESS BLINK/TEAR

PROD,MI

LD-MODERATE CONJ-EXCESS REDNESS OF CONJUNCTIVA.CH

RONIC:PROL/REP ORAL EXPO TO ETHANOL RESULT IN DEVELOPMENT OF
PROGRESSIVE LIVER INJ W/FIBROSIS.

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

HCC:F2

Boiling Pt:B.P. Text:174F,79C

Melt/Freeze Pt:M.P/F.P Text: