

CSD INC. -- ALCOHOL, DENATURED -- 6810-00-782-2686

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

Product ID:ALCOHOL, DENATURED

MSDS Date:01/15/1991

FSC:6810

NIIN:00-782-2686

MSDS Number: BNTLJ

=== Responsible Party ===

Company Name:CSD INC.

Address:5 HACKBERRY LANE

City:CUT & SHOOT

State:TX

ZIP:77303

Country:US

Info Phone Num:409-756-1065 (DAVID SHIPP)

Emergency Phone Num:800-424-9300 CHEMTREC

CAGE:JO933

=== Contractor Identification ===

Company Name:CSD INC.

Address:5 H

ACKBERRY LANE

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:JO933

Company Name:CSD INC. (PRE 1985 NAME: MATHEWS, INC)

Address:420 SEABOARD DRIVE

Box:City:MATTHEWS

State:NC

ZIP:28105-5073

Country:US

Phone:704-821-9822

CAGE:5W216

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

Ingred Name:ETHANOL

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 89%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM

Ingred Name:ETHYL ACETATE (SARA I

II) (SKIN ABSORPTION MAY POTENTIALLY
CONTRIBUTE TO OVERALL EXPOSURE TO MAT'L. APPROPRIATE #
CAS:141-78-6
RTECS #:AH5425000
Fraction by Wt: 5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:# MEASURES SHOULD BE TAKEN TO PREVENT ABSORPTION SO THAT
THE TLV IN NOT INVALIDATED)
RTECS #:9999999ZZ
Other REC Limits:NONE SPECIFIED

Ingred Name:METHANOL (SARA III)
CAS:67-56-1
RTECS #:PC1400000
Fraction by Wt: 4%
Other REC L
imits:NONE SPECIFIED
OSHA PEL:S,200PPM/250STEL
ACGIH TLV:S,200PPM/250STEL; 93
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:HEPTANE
CAS:142-82-5
RTECS #:MI7700000
Fraction by Wt: 1%
Other REC Limits:NONE SPECIFIED
OSHA PEL:500 PPM/500 STEL
ACGIH TLV:400 PPM/500STEL;9293

Ingred Name:METHYL ISOBUTYL KETONE (SARA III)
CAS:108-10-1
RTECS #:SA9275000
Fraction by Wt: 1%
Other REC Limits:NONE SPECIFIED
OSHA PEL:100 PPM/75 STEL
ACGIH TLV:50 PPM/75 STEL; 9293
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5

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

Health Hazards Acute and Chronic: ACUTE: INHALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE UPPER RESPIRATORY TRACT IRRITATION AND NARCOSIS (SLEEPINESS, DIZZINESS, ETC). EYES: LIQUID & VAPOR CAUSE IRRITATION. SKIN: LOW HAZARD FOR USUAL INDUSTRIAL HANDLING. CHRONIC: LAB ANIMALS: LIVER ABNORMALITIES, ANEMIA, KIDNEY, LUNG DAMAGE, EYE DAMAGE, SPLEEN DAMAGE, Effects of Overexposure: BRAIN DAMAGE, NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO THIS MATERIAL (OR ITS COMPONENTS) HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: LIVER ABNORMALITIES, EYE DAMAGE.

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

First Aid: INHAL: REMOVE TO FRESH AIR. TREAT SYMPTOMS. IF BREATHING DIFFICULT, GIVE OXYGEN. IF BREATHING STOPPED, GIVE ARTIF RESP. KEEP WARM, QUIET. GET MED AID IMMEDIATELY. EYES: IMMEDIATELY FLUSH WITH WATER 15 MIN. GET MED AID IF SYMPTOMS PRESENT AFTER WASHING. INGEST: IMMEDIATELY DRINK 2 GLASSES WATER, INDUCE VOMIT (GIVE IPECAC/PLACE FINGER IN THROAT). NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. GET MED AID IMMEDIATELY.

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

Flash Point Method: TCC
Flash Point: 55.4F, 13.0C
Autoignition Temp: Autoignition Temp Text: >404C
Lower Limits: 3.53 @ 25C
Upper Limits: 21.2 @ 64C
Extinguishing Media: WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CO2.
Fire Fighting Procedures: WEAR SCBA & PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN & EYES. WATER MAY BE INEFFECTIVE IN FIGHTING FIRE, USE TO KEEP FIRE EXPOSED CONTAINERS COOL.
Unusual Fire/Explosion Hazard: FLAMMABLE LIQUID & VAPOR. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL ALONG GROUND OR MOVED BY VENTILATION TO AN AUTOIGNITION SOURCE AND MAY FLASH BACK.

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

Spill Release Procedures: SMALL: ABSORB LIQ ON PAPER, VERMICULITE, FLOOR ABSORBENT, ETC. LARGE: E

LIMINATE IGNIT SOURCES. EVACUATE NON-
PROTECTED PERSONS. STOP SPILL AT SOURCE. DIKE AREA OF SPILL TO
PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. TAKE UP REMAIN LIQ
W/ABSORBENT

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

Handling and Storage Precautions:CONTAINERS OF MATERIAL MAY BE
HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT
RESIDUES (VAPOR, LIQUID, SOLID), OBSERVE PRECAUTIONS.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMITS EXCEEDED,
NIOSH/MSHA AIR SUPPLIED RESPIRATOR ADVISED. OSHA REGS PERMIT OTHER
NIOSH/MSHA RSPRTR (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED
CONDITIONS. IMPLEMENT ENGINEERING/ ADMINISTRATN CONTROLS TO REDUCE
EXPOSURE

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL/LOCAL EXHAUST) VENT
TO MAINTAIN EXPOSURE BELOW TLV'S.

Protective Gloves:WEAR RESISTANT GLOVES SUCH AS NEOPRENE.

Eye Protection:CHEMICAL SPLASH
GOGGLES IN COMPLIANCE

Other Protective Equipment:TO PREVENT PROLONGED OR REPEATED SKIN
CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

Work Hygienic Practices:N/K WITH OSHA REGULATIONS ADVISED, HOWEVER
OSHA REGS ALSO PERMIT OTHER TYPES OF SAFETY GLASSES (CONSULT MFR).

Supplemental Safety and Health

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

HCC:F5

Boiling Pt:B.P. Text:172F,78C

Vapor Pres:40

Vapor Density:1.59

Spec Gravity:.79@ 60C

Evaporation Rate & Referenc
e:1.90 (BU AC=1)

Solubility in Water:APPRECIABLE

Appearance and Odor:CLEAR, LITTLE IF ANY COLOR; CHARACTERISTIC ODOR.

Percent Volatiles by Volume:100

Corrosion Rate:NOT CORR

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING MATERIALS CAN CAUSE A VIGOROUS REACTION.

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