

CSD INC. -- DENATURED ALCOHOL -- 6810-00-205-6786

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

Product ID:DENATURED ALCOHOL

MSDS Date:01/15/1991

FSC:6810

NIIN:00-205-6786

MSDS Number: BLFDS

=== Responsible Party ===

Company Name:CSD INC.

Address:#5 HACKBERRY LANE

City:CUT & SHOOT

State:TX

ZIP:77303

Country:US

Emergency Phone Num:800-424-9300

Chemtrec Ind/Phone:(800)424-9300

CAGE:JO933

=== Contractor Identification ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT IN
C

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:4N760

Company Name:CSD INC.

Address:5 HACKBERRY LANE

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:JO933

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

Ingred Name:ETHYL ALCOHOL (ETHANOL)

CAS:64-17-5

RTECS #:KQ6300000

Fraction by Wt: 89%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

Ingred Name:ETHYL ACETATE (SARA

III)
CAS:141-78-6
RTECS #:AH5425000
Fraction by Wt: 5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)
CAS:67-56-1
RTECS #:PC1400000
Fraction by Wt: 4%
Other REC Limits: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:N-HEPTANE
CAS:142-82-5
RTECS #:MI7700000
Fraction by Wt: 1%
Other REC Limits:NONE SPE
CIFIED
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:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 7060 MG/KG (ETHANOL)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenic

ity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALE-HIGH VAPOR

CONCENTRATIONS MAY CAUSE UPPER RESPIRATORY TRACT IRRITATION & NARCOSIS. EYE-LIQUID & VAPOR CAUSES IRRITATION. SKIN-LOW HAZARD FOR USUAL INDUSTRIAL HANDLING. CHRONIC: OVEREXPOSURE TO THIS MATERIAL CAUSES LIVER ABNORMALITIES & EYE DAMAGE IN HUMANS.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:IN

HALE-SLEEPINESS, DIZZINESS, ETC.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE SKIN, EYE, RESPIRATORY TRACT, LIVER OR KIDNEY MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALE-REMOVE TO FRESH AIR. IF HARD TO BREATHE GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. KEEP WARM, QUIET & GET A PHYSICIAN. EYES-IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET A PHYSICIAN IF SYMPTOMS ARE PRESENT AFTER WASHING. INGEST-IMMEDIATELY DRINK 2 GLASSES OF WATER & INDUCE VOMITING (GIVE IPECAC SYRUP OR PUT FINGER DOWN THROAT). GIVE NOTHING BY MOUTH IF UNCONSCIOUS & SEE A PHYSICIAN

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

Flash Point Method:TCC

Flash Point:=-13.C, 55.4F

Autoignition Temp:>403.9C, 759.F

Lower Limits:3.53

Upper Limits:21.2

Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE, ALCOHOL FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING & SELF CONTAINED BREATHING APPARATUS. WATER MAY BE INEFFECTIVE IN FIGHTING FIRE. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:FLAMMABLE LIQUID & VAPOR. VAPORS ARE HEAVIER THAN AIR, MAY TRAVEL ALONG THE GROUND OR MOVE BY VENTILATION TO AN AUTOIGNITION SOURCE AND MAY FLASH BACK.

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

Spill Release Procedures:ABS

ORB LIQUID ON PAPER, VERMICULITE, FLOOR
ABSORBANT, OR OTHER ABSORBANT MATERIAL. PLACE SPILLED MATERIAL IN A
CONTAINER FOR DISPOSAL.
Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN A FLAMMABLE LIQUID STORAGE
ROOM OR CABINET. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.
PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions:CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN

EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES, OBSERVE
HAZARDOUS PRECAUTIONS.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMITS OF THIS PRODUCT IS
EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED
IN ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. OSHA ALSO PERMITS
(NEGATIVE PRESSURE TYPE) RESPIRATOR UNDER SPECIFIC CONDITIONS.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL
OCAL

EXHAUST) VENTILATION TO MAINTAIN EXPOSURE LIMITS BELOW TLV'S.

Protective Gloves:NEOPRENE, NITRILE, PVC OR NATURAL RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. WEAR
IMPERVIOUS TYPE WORK CLOTHING AND BOOTS AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR
FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO

NOT BREATHE VAPORS OR MISTS. CAUTION: FOR MANUFACTURING,
PROCESSING, REPACKING OR INDUSTRIAL USE. NOT FOR HOUSEHOLD USE.
CONTAINER HAZARDOUS WHEN EMPTY. EMPTIED CONTAINERS RETAIN RESIDUAL
LIQUID AND VAPOR. FOLLOW PRECAUTIONS ON LABEL AND IN MSDS.

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

HCC:F5

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:77.8C, 172.F

Vapor Pres:40

Vapor Density:1.59

Spec Gravity

ty:0.79

Evaporation Rate & Reference:1.90 (BUAC=1)

Solubility in Water:APPRECIABLE

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

Percent Volatiles by Volume:100

Corrosion Rate:NOT COR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER

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

Waste Disposal Methods:ALL RECOVERED MATERIAL SHOULD BE PACKAGED,
LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN ACCORDANCE WITH
ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS AND IN
CONFORMANCE WITH GOOD ENGINEERING PRACTICES.

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