

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

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Product Identification
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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 Identi

fication ===

Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT INC

Address: 2210 HACKBERRY LN

Box: 687

City: CONROE

State: TX

ZIP: 77305

Country: US

Phone: 409-756-1065

CAGE: 4N760

Company Name: CSD INC.

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Composition/Information on Ingredients
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Ingred Name: ETHYL ALCOHOL (ETHANOL)

CAS: 64-17-5

RTECS #: KQ6300000

Fraction by Wt: 89%

Other REC Limits: NONE SPECIFIED

OSHA PEL: 10

00 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 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:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 7060 MG/KG (ETHANOL)
Routes of Entr

y: Inhalation: YES Skin: YES Ingestion: NO
Reports of Carcinogenicity: 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: INHALE-SLEEPINESS, DIZZINESS, ETC.
Medical Conditions 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
TO 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 =====

Release Measures =====

Spill Release Procedures: ABSORB 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 P

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 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

Boi

ling Pt:=77.8C, 172.F

Vapor Pres:40

Vapor Density:1.59

Spec Gravity: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.

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===== 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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