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Product ID: SPECIALLY DENATURED ALCOHOL 3A MSDS Date:04/23/1998 FSC:6810 NIIN:00-201-0906 Status Code:A **MSDS Number: CJJSQ** === Responsible Party === Company Name: PHOENIX INDUSTRIES INC Address:11028 LEADBETTER RD UNIT 10 City:ASHLAND State:VA ZIP:23005 Country:US Info Phone Num:804-264 -5183 Emergency Phone Num:804-264-5183 Chemtrec Ind/Phone:(800)424-9300 CAGE:0YED2 === Contractor Identification === Company Name: PHOENIX INDUSTRIES INC Address:1519 CHAMBERLAYNE PARKWAY Box:City:RICHMOND State:VA ZIP:23222 Country:US Phone:804-264-5183/FAX: 264-5535 Contract Num:SP0450-99-M-C807 CAGE:0YED2

Ingred Name:ETHYL ALCOHOL CAS:64-17-5 RTECS #:KQ6300000 Minumum % Wt:90. Maxumum % Wt:95. Other REC Limits:NONE RECOMMEN DED OSHA PEL:1900 MG/M3;1000 PPM ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:METHYL ALCOHOL CAS:67-56-1 RTECS #:PC1400000 Minumum % Wt:1. Maxumum % Wt:5. Other REC Limits:NONE RECOMMENDED OSHA PEL:100PPM ACGIH TLV:262 MG/M3;200 PPM ACGIH STEL:328 MG/M3;250 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture:LD50 (ORAL, RAT) 7,060 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenic

ity:NTP:NO IARC:NO OSHA:NO

- Health Hazards Acute and Chronic:TARGET ORGANS: EYE, SKIN, CNS, RESPIRATORY AND GI TRACTS (HMIS). ACUTE - EYE: CAN CAUSE IRRITATION. SPLASHES MAY CAUSE PAIN AND BLURRED VISION. SKIN: CAUSES IRRITATION, CRACKING OR FLAKING DUE TO DEFA TTING. INHALATION: MAY CAUSE IRRITATIONTO MUCOUS MEMBRANES OF UPPER RESPIRATORY TRACT. PROLONGED EXPOSURE TO HIGH CONCENTRATIONS MAY CAUSE DROWSINESS, LOSS OF APPETITE AND INABILITY TO CONCENTRATE. IN GESTION
- : CAUSE HEADACHES, GASTRITIS, INTOXICATION, BLINDNESS AND, IN ACUTE CASES, DEATH. CHRONIC - SKIN DRYNESS. MAY AFFECT NERVOUS SYSTEM, LIVER, BLOOD REPRODUCTIVE SYSTEM. CONTINUED INGESTION OF SMA LL AMOUNTS COULD RESULT IN BLINDNESS.
- Explanation of Carcinogenicity:ETHANOL HAS BEEN LINKED TO CANCER IN HUMANS. CHRONIC ETHANOL INGESTION IS ASSOCIATED WITH LIVER CANCER. MOST INDUSTRIAL ETHANOL CONTAINS DENATURANTS THAT RENDER IT UNDESIRABLE TO DRINK.

Effects of Overexposure:EYE

PAIN AND BLURRED VISION, SKIN IRRITATION,

CRACKING OR FLAKING DUE TO DEHYDRATION AND DEFATTING, IRRITATION TO MUCOUS MEMBRANES OF UPPER RESPIRATORY TRACT, DROWSINESS, LOSS OF APPETITE AND INABILIT Y TO CONCENTRATE, HEADACHES, GASTRITIS, INTOXICATION, BLINDNESS AND, IN ACUTE CASES, DEATH, BLINDNESS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED LIVER OR KIDNEY MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUC First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. INGESTION: INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTHTO AN UNCONSCIOUS PERSON. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP OR MILD DETERGENT AND WATER FOR AT LEAST 15 MINUTES. GET MEDIC

AL ATTENT ION IF IRRITATION DEVELOPS OR PERSISTS. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES,, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIAT ELY.

Flash Point Method:CC Flash Point:=13.C, 55.4F Autoignition Temp:=422.C, 791.6F Lower Limits:3.3 Upper Limits:19 Extinguishing Media:WATER SPRAY,DRY CHEMICAL,ALCOHOL FOAM,OR CARBON DIOSIDE. WATER M AY BE INEFFECTIVE Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING& NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. WATER SPRAY CAN BE USED TO EXTINGUISH FIRE & COOL FIRE EXPO CONTAINER. USE WATER TO FLUSH SPILL AWAY FROM EXPOSURE AND TO DILUTE SPILL TO NONFLAMMABLE MIXTURE Unusual Fire/Explosion Hazard:ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE

EXPLOSIVE WITHIN FLAMMABLE LIMITS. VAPOR

CAN FLOW ALONG SURFACE TO

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DISTANT IGNITION SOURCES AND FLASH BACK. SEALED CONTAINERS MAY RUPTURE WHEN HEATED. SENSITI VE TO STATIC DISCHARGE.

Spill Release Procedures: VENTILATE AREA OF SPILL. REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. USE NON-SPARKING TOOLS. COLLECT LIQUID IN AN APPROPRAITE CONTAINER ORABSORB WITH AN INERT MATERIAL (E.G., VERMICULITE, DRY SAND), AND PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT USE COMBUSTIBLE MATERIALS. DO NOT FLUSH TO SEWERS

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM FIRE HAZARD AREA. OUTSIDE OR DETACHED STORAGE IS PREFERRED. SEPARATE FROM INCOMPATIBLES. CONTAINERS SHOULD BE BONDED AND GROUNDED FOR TRANSFER S TO AVOID STA

TIC SPARKS. STORAGE

AND USE AREA SHOULD BE NO SMOKING AREAS.

Other Precautions: PROTECT AGAINST PHYSICAL DAMAGE. USE NON-SPARKING TYPE TOOLS AND EQUIPMENT, INCLUDING EXPLOSION PROOF VENTILATION. CONTAINERS OF THIS MATERIAL MAY BE HZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESI DUES (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

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

Respiratory Protection:NIOSH APPROVED. WEAR A

SUPPLIED-AIR, FULL

FACEPIECE RESPIRATOR, AIRLINED HOOD, OR FULL FACEPIECE SELF CONTAINED BREATHING APPARATUS.

Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EXPOSURES BELOW EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED.

Protective Gloves: IMPERVOIUS

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD

Other Protective Equipment: IMPERVIOUS CLOTHING, INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE TO PREVENT

SKIN CONTACT.

EYE WASH FOUNTAIN AND QUICK DRENCH FACILITIES IN WORK AREA. Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

HCC PER TECHNICAL SUPPORT. POISON! DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. FLAMMABLE! AFFECTS CENTRAL NERVOUS SYSTEM. MAY CAUSE BLINDNESS. CANNOT BE MADE NONPOI SONOUS. CAUSES IRRITAITON TO SKIN, EYES, AND RESPIRATORY TRACT. MAY AFFECT LIVER, BLOOD, REPRODUCTIVE SYSTEM.

HCC:F2 Boiling Pt:=78.C, 172.4F B.P. Text:ETHANOL Melt/Freeze Pt:=-114.C, -173.2F M.P/F.P Text:ETHANOL Vapor Pres:40 @ 66F ETHANOL Vapor Density:1.6 ETHANO Spec Gravity:0.79 pH:NO INFO Evaporation Rate & amp; Reference:CA. 1.4 (CCL4=1)ETHANOL Solubility in Water:MISCIBLE Appearance and Odor:CLEAR ODORLESS LIQUID. MILD PLEASANT WHI SKEY-LIKE ODOR. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES STRONG OXIDANTS,SILVER SALTS,ACID CHLORIDES,ALKALI METALS,METAL HYDRIDES,HYDRAZINE,AND MANY OTHER SUBSTANCES. Stability Condition to Avoid:HEAT,FLAMES,IGNITION SOURCES AND INCOMPATIBLES Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.

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Toxicological Information:INHALATION RAT LC50: 20,000 PPM/10H; IRRITATION DATA, YE, RABBIT:500 MG/24 H SEVERE; METHYL ALCOHOL: ORAL RAT LD50: 5628 MG/KG; INHALATION RAT LC50: 64000 PPM/4H. ETHANOL HAS BEEN LINKED TO BIRTH DEFE CTS IN HUMANS.

Ecological:WHEN ETHANOL RELEASED INTO SOIL, IT IS EXPECTED TO READILY BIODEGRADE, TO LEACH INTO GROUNDWATER, TO QUICKLY EVAPORATE. W

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RELEASED INTO WATER, THIS MATERIAL IS EXPECTED TO REDILY BIODEGRADE, MODERA TELY EVAPORATE. ETHANOL IS NOT EXPECTEDTO SIGNIFICANTLY BIOACCUMULATE. WHEN RELEASED INTO AIR, IT IS EXPECTED TO BE READILY DEGRADED BY REACTION WITH PHOTOCHEMICALLY PRODUCED HYDROXY RADIACALS, REMOVE D FROM ATMOSPHERE BY DRY AND WET DEPOSITION AND HAVE A HALF-LIFE OF 1 AND 10 DAYS. IT IS NOT EXPECTED TO BE TOXIC TO AQUATIC LIFE. THE LC50/96-HOUR VALUES FOR FISH ARE OVER 100 MG/L.

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Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE AND SENT TO A RCRA APPROVED INCINERATOR OR DISPOSED IN A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAM INATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATION S MAY DIFFER FROM FEDERAL.

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SARA Title III Information:US REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS AND RELEASES TO SOIL, WATER AND AIR IN EXCESS OF REPORTABLE QUANTITIES. THE TOLL FREE NUMBER FOR THE US COAST GUARD NATIONAL RESPONSE CENTER IS (800) 4 24-8802. ETHANOL IS NOT ON SARA 313 LISTBUT METANOL IS. RCRA-CERCLA: REPORTABLE QUANTITY FOR METHANOL IS 5000 LBS.

State Regulatory Information:

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