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PHOENIX INDUSTRIES INC -- SPECIALLY DENATURED ALCOHOL 3A -- 6810-00-577-4889

Product ID: SPECIALLY DENATURED ALCOHOL 3A MSDS Date:12/01/2000 FSC:6810 NIIN:00-577-4889 Status Code:A MSDS Number: CLHNW === Responsible Party === Company Name: PHOENIX INDUSTRIES INC Address:1519 CHAMBERLAYNE PARKWAY City:RICHMOND State:VA ZIP:23222 Country:US Info Phone Num:804-264-51 83/FAX: 264-5535 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:SP0450-01-M-ZB07 CAGE:0YED2

Ingred Name:ETHYL ALCOHOL CAS:64-17-5 RTECS #:KQ6300000 Minumum % Wt:90. Maxumum % Wt:95. 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. OSHA PEL:100 PPM ACGIH TLV:262 MG/M3;200 PPM ACGIH STEL:328 MG/M3;250 PPM S EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture:ORAL, RAT, LD50:7,060 MG/KG (ETHANOL) Health Hazards Acute and Chronic:INHALATION: CAUSES IRRITATION TO MUCOUS MEMBRANES OF UPPER RESPIRATORY TRACT. PROLONGED

**EXPOSURES TO** 

HIGH CONCENTRATIONS MAY CAUSE DROWSINESS, LOSS OF APPETITE, INABILITY TO CONCENTRATE. INGESTION: CA USES HEADACHES, GASTRITIS, INTOXICATION, BLINDNESS AND IN ACUTE CASES, DEATH. SKIN CONTACT: CAUSES IRRITATION, CRACKING, FLAKING DUE TO DEFATTING. EYE CONTACT:CAUSES IRRITATION. SPLASHES CAUSE TEMPOR ARY PAIN, BLURRED VISION. CHRONIC EXPOSURE: PROLONGED CONTACT CAUSES DRYING, CRACKING OF SKIN. MAY AFFECT NERVOUS SYSTEM, LIVER, BLOOD, REPRODUCTIVE SYSTE

M. CONTINUED INGESTION OF SMALL AMOUNTS COULD CAUSE BLINDNESS.

Effects of Overexposure:INHALATION: IRRITATION OF MUCOUS MEMBRANES OF UPPER RESPIRATORY TRACT, DROWSINESS, LOSS OF APPETITE, INABILITY TO CONCENTRATE. INGESTION: HEADACHES, GASTRITIS, INTOXICATION, BLINDNESS, DEATH. SKIN CO NTACT: IRRITATION, CRACKING, FLAKING, DEFATTING. EYE CONTACT: IRRITATION, TEMPORARY PAIN, BLURRED VISION. CHRONIC: DRYING, CRACKING OF SKIN, NERVOUS SYSTEM EFFECTS, LIVER, BLOOD, REPRO

DUCTIVE SYSTEM E FFECTS, BLINDNESS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED LIVER OR KIDNEY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

First Aid:INHALATION: MOVE 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 PE RSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP OR MILD DETERGENT AND WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF IRR ITATION DEVELOPS OR PERSISTS. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION.

Flash Point Method:CC Flash Point:=12. 8C, 55.F Autoignition Temp:=422.C, 791.6F Lower Limits:3.3 **Upper Limits:19** Extinguishing Media:WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE. Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SCBA WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. WATER SPRAY CAN BE USED TO EXTINGUISH FIRES AND COOL FIRE-EXP OSED CONTAINERS. WATER MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES AN D TO DILUTE SPILLS TO NON-FLAMMABLE MIXTURES. Unusual Fire/Explosion Hazard:FLAMMABLE LIQUID AND VAPOR! DANGEROUS FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME. ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSVE WITHIN FLAMMABLE LIMITS NOTED ABOVE. VAPORS CAN FLOW ALONG SURFACES TO DISTANT IGNITION SOURCES

AND FLASH BACK. SEALED CONTAINERS MAY RUPTURE WHEN HEATED. SENSITIVE TO STATIC DISCHARGE.

Spill Relea

se Procedures:VENTILATE AREA. REMOVE SOURCES OF IGNITION. WEAR PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. USE NON-SPARKING TOOLS AND EQUIPMENT. COLLECT LIQUID IN A N APPROPRIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL (E.G. VERMICULITE, DRY SAND, EARTH) AND PLACE IN A WASTE CONTAINER. DO NOT FLUSH TO SEWER! U.S. REGULATIONS (CERCLA) (CONTD. SEE "FEDERAL REG")

Handling and Storage Precautions: PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM AREAS WHERE FIRE HAZARD MAY BE ACUTE. OUTSIDE OR DETACHED STORAGE IS PREFERRED. SEPARATE FROM INCOMPATIBLES. CONTAINERS SHOULD BE BONDED AND GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS.

Other Precautions:STORAGE AND USE AREAS SHOULD BE NO SMOKING AREA. USE NON-SPARKING TYPE TOOLS AND EQUIPMENT, INCLUDING EXPLOSION PROOF VENTILATION. CON

TAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RE TAIN PRODUCT RESIDUES (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUSIONS LISTED FOR THE PRODUCT.

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

Respiratory Protection:(NIOSH APPROVED): IF THE EXPOSURE LIMIT IS EXCEEDED, 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 EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. Protective Gloves:WEAR IMPERVIOUS GLOVES.

Eye Protection:USE CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE

Other Protective Equipment: MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIED IN WORK AREA. WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE TO PREVENT SKIN CONTACT.

Supplemental Safety and Health

LOCAL EXHAUST

VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA. PLEASE REFER TO THE ACGI H DOCUMENT, "INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES", MOST RECENT EDITION, FOR DETAILS.

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:4 0 MM HG @ (66F)(ETHANOL) Spec Gravity:0.79 @ 20C/4C pH:NO INFORMATION Solubility in Water:MISCIBLE IN WATER. Appearance and Odor:CLEAR, COLORLESS LIQUID; MILD PLEASANT WHISKEY-LIKE ODOR.

 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:STABLE UNDER ORDINARY CONDITIONS OF USE AND
STORAGE. HEAT, FLAMES, IGNITION SOURCES AND INCOMPATIBLES.
Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

Toxicological Information:ETHYL ALCOHOL: ORAL, RAT, LD50: 7,060 MG/KG; INHALATION, RAT, LC50: 20,000 PPM/ 10 H; IRRITATION DATA, EYE, RABBIT: 500 MG/24H SEVERE; INVESTIGATED AS A TUMORIGEN, MUTAGEN,

REPRODUCTIVE EFFECTOR. METH YL ALCOHOL: ORAL, RAT, LD50:5,628 MG/KG; INHALATION, RAT, LC50: 64,000 PPM/4H; SKIN, RABBIT, LD50: 15,800 MG/KG; IRRITATION DATA, SKIN, RABBIT: 20 MG/24H, MODERATE; INVESTIGATED AS A TUMORIGEN, MUTAGE N, REPRODUCTIVE EFFECTOR. REPRODUCTIVE TOXICITY: ETHANOL HAS BEEN LINKED TO BIRTH DEFECTS IN HUMANS. CARCINOGENICITY: ETHANOL HAS BEEN LINKED TO CANCER IN HUMANS. CHRONIC ETHANOL INGESTION IS ASSOCIAT ED WITH .(CONTD. SEE "SARA I I I")

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Ecological:ENVIRONMENTAL FATE: ETHANOL: WHEN RELEASED IN SOIL, MATERIAL EXPECTED TO READILY BIODEGRADE; EXPECTED TO LEACH INTO GROUNDWATER; EXPECTED TO QUICKLY EVAPORATE. WHEN RELEASED IN WATER, THIS MATERIAL MA Y EVAPORATE TO A MODERATE EXTENT; NOT EXPECTED TO SIGNIFICANTLY BIOACCUMULATE. WHEN RELEASED IN AIR: THIS MATERIAL IS EXPECTED TO BE READILY DEGRADED BY REACTION WITH PHOTOCHEMICALLY PRODUCED HYDROX YL RADICALS.; EXPECTED TO BE READILY REMOVED FROM THE ATMOSPHERE BY DRY AND WET DEPOSITION; EXPECTED TO HAVE A HALF-LIFE OF 1 TO 10 DAYS. PRODUCT IS NOT EXPECTED TO BE TOXIC TO AQUATIC LIFE. LC50/96-HOU R VALUES FOR FISH ARE OVER 100 MG/L.

Waste Disposal Methods:SPILLS NOT RECOVERED SHOULD BE SENT AS WASTE TO RCRA APPROVED INCINERATOR OR WASTE FACILITY. PROCESSING, USE, CONTAMINATION OF PRODUCT MAY CHANGE WASTE MANAGEMENT OPTION. STATE

AND LOCAL DISPOSAL REG ULATIONS MAY DIFFER FROM FEDERAL REGULATIONS. DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.

Transport Information:DOMESTIC (LAND, D.O.T.): PROPER SHIPPING NAME: ETHANOL SOLUTION (SD31 ALCOHOL); HAZARD CLASS: 3; UN 1170; PKG: I I. ICAO (AIR): PROPER SHIPPIG NAME: ETHANOL SOLUTION (SD3A ALCOHOL);

HAZARD CLASS: 3; UN 1170; PKG: I I.

SARA Title III Information:SARA 302: ETHYL ALCOHOL(64-17-5) AND METHYL ALCOHOL(67-56-1): NO RQ AND TPQ REGULATIONS. SARA 313: ETHYL ALCOHOL: LIST - NO ANDCHEMICAL CATG.: NO; METHYL ALCOHOL: LIST -YES; CHEMICAL CATG. - NO. (CONTD. FROM TOXICOLOGICAL) LIVER CANCER. MOST INDUSTRIAL ETHANOL CONTAINS DENATURANTS THAT RENDER IT UNDESIRABLE TO DRINK. CANCER LISTS: INGREDIE NT: ETHYL ALCOHOL

(64-17-5): NTP CARCINOGEN: KNOWN - N O; ANTICIPATED - NO; IARC CATEGORY - NONE. METHYL ALCOHOL (67-56-1): NTP CARCINOGEN : KNOWN-NO; NTP ANTICIPATED - NO; IARC CATEGORY - NONE.

Federal Regulatory Information:ETHYL ALCOHOL (64-17-5): RCRA, CERCLA-NO; TSCA - 261.33 - NO; 8(D) - NO; METHYL ALCOHOL (67-56-1): RCRA, CERCLA - 5,000; TSCA - 261.33 -U154; 8(D) - NO. (CONTD. FROM "SPILL RELEASE") REPORTING SPI LLS AND RELEASES TO SOIL, WATER, AND AIR IN

## EXCESS OF REPORTABLE QUANTITIES. THE TOLL FREE NUMBER FOR TH COAST GUARD NATIONAL RESPONSE CENTER IS 800-424-8802.

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