

PHOENIX INDUSTRIES INC -- SPECIALLY DENATURED ALCOHOL 3A -- 6810-00-543-7415

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

Product ID:SPECIALLY DENATURED ALCOHOL 3A

MSDS Date:08/08/2001

FSC:6810

NIIN:00-543-7415

Status Code:A

MSDS Number: CLMRB

=== 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

Emergency Phone Num:804-264-5183

Preparer's Name:NOT PROVIDED

Chemtec 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-ZH32

CAGE:0YED2

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

Ingred Name:ETHYL ALCOHOL

CAS:64-17-5

RTECS #:KQ6300000

Minimum % Wt:90.

Maximum % Wt:95.

Othe

r REC Limits:NOT PROVIDED  
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

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

LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute

and Chronic:POTENTIAL HEALTH EFFECTS: INHALATION:

MAY CAUSE IRRITATION TO MUCOUS MEMBRANES OF UPPER RESPIRATORY TRACT. PROLONGED EXPOSURE TO HIGH CONCENTRATIONS MAY CAUSE DROWSINESS, LOSS OF APPETITE AND INABILITY TO CONCENTRATE.

INGESTION: CAUSE HEADACHES, GASTRITIS, INTOXICATION, BLINDNESS AND, IN ACUTE CASES, DEATH. SKIN CONTACT: CAUSES IRRITATION, CRACKING OR FLAKING DUE TO DEFATTING. EYE CONTACT: CAN CAUSE IRRITATION.

SPLASHES MAY CAUSE PAIN AND BLURRED VISION.

CHRONIC - SKIN DRYNESS.

MAY AFFECT NERVOUS SYSTEM, LIVER, BLOOD, REPRODUCTIVE SYSTEM.

CONTINUED INGESTION OF SMALL 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:INHALATION: MAY CAUSE IRRITATION TO MUCOUS MEMBRANES OF UPPER RESPIRATORY TRACT. PR

OLONGED EXPOSURE TO HIGH

CONCENTRATIONS MAY CAUSE DROWSINESS, LOSS OF APPETITE AND INABILITY TO CONCENTRATE. INGESTION: CAUSE HEADACHES, GASTRITIS, INTOXICATION, BLINDNESS AND, IN ACUTE CASES, DEATH. SKIN CONTACT: CAUSES IRRITATION, CRACKING OR FLAKING DUE TO DEFATTING. EYE CONTACT: CAN CAUSE IRRITATION. SPLASHES MAY CAUSE PAIN AND BLURRED VISION.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED LIVER OR KIDNEY M

AY BE MORE

SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

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 MOUTH TO AN UNCONSCIOUS PERSON. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP OR MILD DETERGENT AND WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION 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 IMMEDIATELY.

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

Flash Point Method:CC  
Flash Point:=12.8C, 55.F  
Autoignition Temp:=422.2C, 792.F  
Lower Limits:3.3  
Upper Limits:19  
Extinguishing Media:WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE. WATER SPRAY CAN BE USED TO COOL FIRE EXPOSED CONTAINER.  
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. 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 DISTANT IGNITION SOURCES AND FLASH BACK. SEALED CONTAINERS MAY RUPTURE WHEN HEATED. SENSITIVE TO STATIC DISCHARGE.

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

Spill Release Procedures:VENTILATE AREA OF SPILL. REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE PPE. ISOLATE HAZARD AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. CONTAIN AND RECOVER LIQUID WHEN P

POSSIBLE. USE NON-SPARKING TOOLS AND EQUIPMENT. COLLECT LIQUID IN AN APPROPRIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL (E.G. VERMICULITE, DRY SAND, EARTH), AND PLACE IN A WASTE CONTAINER.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. OUTSIDE OR DETACHED STORAGE IS

PERFERRED.

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 AREAS. USE NON-SPARKING TYPE TOOLS AND EQUIPMENT, INCLUDING EXPLOSION PROOF VENTILATION. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT .

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

Respiratory Protection: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 EXPOSURES BELOW EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED.

Protective Gloves:IMPERVIOUS

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

POISON! DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. FLAMMABLE! AFFECTS C

ENTRAL NERVOUS SYSTEM.

MAY CAUSE BLINDNESS. CANNOT BE MADE NONPOISONOUS. CAUSES IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY AFFECT LIVER, BLOOD, REPRODUCTIVE SYSTEM.

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

HCC:F5

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=77.8C, 172.F

B.P. Text:ETHANOL

Melt/Freeze Pt:=-114.C, -173.2F

M.P/F.P Text:ETHANOL

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:40 MMHG @ 66F ETHANOL

Vapor Density:NONE PROVIDED

Spec Gravity:

0.79

pH:NOT RELEVANT

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT PROVIDED

Solubility in Water:MISCIBLE

Appearance and Odor:CLEAR ODORLESS LIQUID. MILD PLEASANT WHISKEY-LIKE ODOR.

Percent Volatiles by Volume:NOT PROVIDED

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDANTS, SILVER SALTS, ACID CHLORIDES, ALKALI METALS, METAL HYDRIDES, HYDRAZINE, AND MANY OTHER SUBSTANCES.

S.

Stability Condition to Avoid:HEAT, FLAMES, IGNITION SOURCES AND INCOMPATIBLES.

Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.

===== Toxicological Information =====

Toxicological Information:ETHYL ALCOHOL: ORAL RAT LD50: 7060 MG/KG; INHALATION RAT LC50: 20,000 PPM/10H; IRRITATION DATA, EYE, RABBIT: 500 MG/24H SEVERE; INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR. METHYL

ALC OHOL ORAL RAT LD50: 5628 MG/KG;  
INHALATION RAT LC50: 64000 PPM/4H; SKIN RABBIT LD50: 15800 MG/KG;  
IRRITATION DATA, SKIN, RABBIT: 20 MG/24H, MODERATE; INVESTIGATED AS  
A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR. ETHANOL HAS BEEN  
LINKED TO BIRTH DEFECTS IN HUMANS.

=====  
Ecological Information  
=====

Ecological:ENVIRONMENTAL FATE: FOLLOWING DATA FOR ETHANOL: WHEN  
RELEASED INTO THE SOIL, THIS MATERIAL IS EXPECTED TO READILY  
BIODEGRADE.

WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS EXPECTED  
TO QUICKLY EVAPORATE. WHEN RELEASED INTO WATER, THIS MATERIAL MAY  
EVAPORATE TO A MODERATE EXTENT. THIS MATERIAL IS NOT EXPECTED TO  
SIGNIFICANTLY BIOACCUMULATE. WHEN RELEASED INTO THE AIR, THIS  
MATERIAL IS EXPECTED TO BE READILY REMOVED FROM THE ATMOSPHERE BY  
DRY AND WET DEPOSITION. ENVIRONMENTAL TOXICITY: THIS MATERIAL IS  
NOT EXPECTED TO BE TOXIC TO AQUATIC LIFE. THE LC50/96-HOUR VALUES  
FOR FISH ARE OVER 100 MG/L

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

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 CONTAMINATION OF THIS PRODUCT MAY CHANGE THE  
WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY  
DIFFER FROM FEDERAL.

=====  
MSDS Transport Information  
=====

Transport Information:DOMESTIC (LAND, D.O.T.) PROPER SHIPPING NAME:  
ETHANOL SOLUTION (SD3A ALCOHOL), HAZARAD CLASS: 3, UN NO.: UN1170,  
PACKING GROUP: II. ICAO (AIR) PROPER SHIPPING NAME: ETHANOL  
SOLUTION (SD3A ALCOHOL), HAZARAD CLASS: 3, UN NO.: UN1170, PACKING  
GROUP: II.

=====  
Regulatory Information  
=====

SARA Title III Information:METHYL ALCOHOL (67-56-1): SARA 313 LISTED.  
Federal Regulatory Information:METHYL ALCOHOL (67-56-1)

): RCRA- CERCLA  
5000, TSCA 261.33- U154.

State Regulatory Information:NOT PROVIDED

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.