

PHARMCO PRODUCTS INC -- 200 PROOF ETHYL ALCOHOL -- 6810-00-264-5906

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

Product ID:200 PROOF ETHYL ALCOHOL

MSDS Date:03/01/1997

FSC:6810

NIIN:00-264-5906

MSDS Number: CJGPK

=== Responsible Party ===

Company Name:PHARMCO PRODUCTS INC

Address:58 VALE ROAD

City:BROOKFIELD

State:CT

ZIP:06804-3967

Country:US

Info Phone Num:800-243-5360, 203-740-3471

Emergency Phone Num:2

03-740-3471

Chemtec Ind/Phone:(800)424-9300

CAGE:69267

=== Contractor Identification ===

Company Name:PHARMCO PRODUCTS INC.

Address:58 VALE ROAD

Box:City:BROOKFIELD

State:CT

ZIP:06804-3967

Country:US

Phone:203-740-3471

Contract Num:SP0450-99-M-C845

CAGE:69267

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

Ingred Name:ETHANOL

CAS:64-17-5

RTECS #:KQ6300000

= Wt:100.

OSHA PEL:1900 MG/M3;1000 PPM

ACGIH TLV:1880 MG/M3;1000 PPM

=====
Hazards Identification =

=====
LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Health Hazards Acute and Chronic:TARGET ORGANS: CNS, RESPIRATORY TRACT, EYES. INGESTION MAY CAUSE DIZZINESS, FAINTNESS, DROWSINESS, DECREASED AWARENESS OR RESPONSIVENESS, NAUSEA, VOMITING, STAGGERING GAIT, LACK OF CO-ORDINATION, COMA . INHALATION MAY CAUSE BURNING SENSATION OF NOSE & THROAT, STINGING, WATERING OF EYES; AT WHICH CAUSE IRRITATION, DIZZIN

ESS, FAINTNESS, DROWSINESS, NAUSEA &

VOMITING MAY OCCUR. EYE CONTACT MAY CAUSE STING, TEARING & REDNESS. CHRONIC: LONG TERM REPEATED ORAL EXPOSURE TO ETHANOL MAY RESULT IN PROGRESSIVE LIVER INJURY WITH FIBROSIS.

Explanation of Carcinogenicity:NOT CLASSIFIABLE AS A HUMAN CARCINOGEN.

Effects of Overexposure:INGESTION MAY CAUSE DIZZINESS, FAINTNESS, DROWSINESS, DECREASED AWARENESS OR RESPONSIVENESS, NAUSEA, VOMITING, STAGGERING GAIT, LACK OF CO-ORDINATION, COMA. INHALATION

MAY CAUSE BURNING SENSATION OF NOSE & THROAT, STINGING, WATERING OF EYES; AT WHICH CAUSE IRRITATION, DIZZINESS, FAINTNESS, DROWSINESS, NAUSEA & VOMITING MAY OCCUR. EYE CONTACT MAY CAUSE STING, TEARING & REDNESS.

Medical Cond Aggravated by Exposure:REPEATED EXPOSURE TO ETHANOL MAY AGGRAVATE LIVER INJURY PRODUCED FROM OTHER CAUSES.

=====
First Aid Measures

First Aid:INGESTED-IF CONSCIOUS, GIVE 2 GLASSES WATER, INDUCE VOMITING. OBT

AIN MEDICAL ATTENTION. SKIN-WASH WITH SOAP & WATER FOR AT LEAST MINUTES. INHALED-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT. EYES: FLUSH WITH WATER FOR 15 MINUTES. NOTE TO PHYSICIAN: SYMPTOMS VARY WITH AMOUNT OF ALCOHOL IN BLOOD. MILD INTOXICATION: 0.5-0.15%. AT ABOVE 0.15% A PERSON IS DEFINITELY INTOXICATED. SEVERE POISONING OCCURS WHEN BLOOD ALCOHOL LEVELS REACH 0.3-0.5%. ABOVE 0.5% THE PERSON WILL BE COMATOSE. AND DEATH CAN OCCUR.

=====
Fire Fighting Measures

Flash Point Method:TCC

Flash Point:=-14.4C, 58.F

Lower Limits:3.3

Upper Limits:19

Extinguishing Media:APPLY ALCOHOL-TYPE OR ALL-PURPOSE FOAM BY MANUFACTURER'S RECOMMENDED TECHNIQUES FOR LARGE FIRES. USE CARBON DIOXIDE OR DRY CHEMICAL MEDIA FOR SMALL FIRES.

Fire Fighting Procedures:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES. USE WATER SPRAY TO DISPERSE VAPORS-RE-IGNI

TION IS POSSIBLE; USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:VAPORS MAY TRAVEL TO SOURCE OF IGNITION AND FLASH BACK. VAPORS MAY SETTLE IN LOW OR CONFINED SPACES. MAY PRODUCE A FLOATING FIRE HAZARD. STATIC IGNITION HAZARD CAN RESULT FROM HANDLING AND USE.

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

Spill Release Procedures:SMALL SPILLS CAN BE FLUSHED WITH LARGE AMOUNTS OF WATER. LARGE SPILL: ELIMINATE ALL IGNITION SOURCES; GROUND ALL EQUIPMENT; DO NOT WALK THROUGH SPILL; STOP SPILL IF POSSIBLE; PREVENT ENTRY INTO SEWERS , CONFINED SPACES, ETC. USE A VAPOR SUPPRESSING FOAM TO REDUCE VAPORS. ABSORB WITH NON-COMBUSTIBLE MATTER & TRANSFER TO CONTAINERS, USE NON-SPARKING TOOLS TO COLLECT ABSORBED MATERIAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP AWAY FROM HEAT , SPARKS & FLAME.SUDDEN RELEASES OF HOT ORGANIC VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED TEMPERATURE MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS SOURCES.KEEP CONTAINER CLOSED.USE WITH ADEQUATE VENTILATION.GROUND CONTAINERS WHEN TRANSFERRING PRODUCT.

Other Precautions:AVOID CONTACT WITH EYES. VAPORS MAY COLLECT IN CONTAINERS; TREAT EMPTY CONTAINERS AS HAZARDOUS. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:USE SELF-CONTAINED BREATHING APPARATUS IN HIGH VAPOR CONCENTRATION.

Ventilation:SPECIAL, LOCAL VENTILATION IS NEEDED WHERE VAPORS ESCAPE TO THE WORKPLACE AIR.

Protective Gloves:YES

Eye Protection:SAFETY GLASSES

Other Protective Equipment:LAB COAT OR UNIFORM, EYE WASH, SAFETY SHOWER

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

===== Physical/Chemical

Properties =====

HCC:F2

Boiling Pt:=78.3C, 172.9F

Melt/Freeze Pt:=-114.C, -173.4F

Vapor Pres:44.6MMHG@20C

Vapor Density:1.6

Spec Gravity:.7906 @20/20C

VOC Pounds/Gallon:760

Evaporation Rate & Reference:3.3 (BUTYL ACETATE=1)

Solubility in Water:100%@20C

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC ODOR

Percent Volatiles by Volume:100%

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDI

ZING AGENTS; STRONG INORGANIC ACIDS.

Stability Condition to Avoid:NONE KNOWN.

Hazardous Decomposition Products:CARBON MONOXIDE AND/OR CARBON DIOXIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:REPEATED INGESTION OF ETHANOL BY PREGNANT MOTHERS HAS BEEN SHOWN TO ADVERSELY AFFECT THE CENTRAL NERVOUS SYSTEM OF THE FETUS, PRODUCING A COLLECTION OF EFFECTS WHICH TOGETHER CONSTITUTE FETAL ALCOHOL SYNDROME. THESE INCLUDE MENTAL & PHYSICAL RETARDATION, DISTURBANCES OF LEARNING, MOTOR AND LANGUAGE DEFICIENCIES, BEHAVIORAL DISORDERS AND SMALL SIZE HEAD.

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

Ecological:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:DISPOSE OF SPILL-CLEAN UP AND OTHER WASTES IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

=====

== MSDS Transport Information =====

Transport Information: PROPER SHIPPING NAME: ETHYL ALCOHOL; HAZARD CLASS: 3; UN NUMBER: 1170. IMO INFORMATION: ETHANOL OR ETHANOL SOLUTIONS; LABEL OF CLASS: 3; PACKING GROUP II; INTERMEDIATE FLASHPOINT GROUP.

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

SARA Title III Information: SARA 302/304/311/312 REPORTING-COMPONENTS PRESENT WHICH REQUIRE REPORTING UNDER THIS STATUTE: NONE. COMPONENTS WHICH REQUIRE REPORTING UNDER 40 CFR PART 372 (SARA 313) OF SARA III: NONE.

Federal Regulatory Information: TSCA: THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY. CERCLA REQUIRES NOTIFICATION OF THE NATIONAL RESPONSE CENTER OF RELEASE QUANTITIES OF HAZARDOUS SUBSTANCES EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITIES (RQ) IN CFR. COMPONENTS PRESENT IN THIS PRODUCT AT A LEVEL WHICH COULD REQUIRE REPORTING UNDER THIS STATUTE: ACETONE, CAS# 67-64-1, 0.0002%; METHANOL CAS# 67-56-1, 0.0150%; ACETALDEHYDE CAS# 75-07-0, 0.002%.

State Regulatory Information: CALIFORNIA PROPOSITION 65: THIS PRODUCT CONTAINS TRACE LEVELS OF ACETALDEHYDE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. MASSACHUSETTS: HAZARDOUS SUBSTANCES AND EXTRAORDINARILY HAZARDOUS SUBSTANCES MUST BE IDENTIFIED. COMPONENTS PRESENT WHICH COULD REQUIRE REPORTING: EXTRAORDINARILY HAZARDOUS (\Rightarrow 0.0001% ACETALDEHYDE (CAS 75-07-0) UPPER BOUND CONC. 0.0020%. HAZARDOUS (\Rightarrow 1%): ETHANOL (CAS 64-17-5) UPPER BOUND CONC. 100%. PENNSYLVANIA: HAZARDOUS SUBSTANCES MUST BE IDENTIFIED. HAZARDOUS (\Rightarrow 1%): ETHANOL UPPER BOUND CONC. 100%. CALIFORNIA SCAQMD RULE 443.1 (VOC'S) A VOLATILE ORGANIC COMPOUND (VOC) IS

===== 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

er 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.