

PHARMCO PRODUCTS INC -- PURE ETHYL ALCOHOL -- 6505-00-105-0000
===== Product Identification =====

Product ID:PURE ETHYL ALCOHOL
MSDS Date:07/01/1989
FSC:6505
NIIN:00-105-0000
MSDS Number: BLWFW
=== Responsible Party ===
Company Name:PHARMCO PRODUCTS INC
Address:395 HOOK RD
City:BAYONNE
State:NJ
ZIP:07002
Country:US
Info Phone Num:800-243-5360
Emergency Phone Num:800-424-9300(CHEMTREC)
CAGE:69796
=== Contractor Identification ===
Company Name:PHARMCO PRODUCTS INC
Address:395 HOOK RD
Box:City:BAYONNE
State:NJ
ZIP:07002
Country:US
Phone:800-424-9300(CHEMTREC)
CAGE:69796

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

Ingred Name:ETHYL ALCOHOL (ETHANOL)
CAS:64-17-5
RTECS #:KQ6300000
Fraction by Wt: 100%
Other REC Limits:NONE SPECIFIED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9192

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

LD50 LC50 Mixture:LD5

0 (ORAL RAT) IS 6.2 TO 17.8 G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CHRONIC: PROLONGED EXPOSURE TO EXCESSIVE CONCENTRATIONS OF ETHANOL MAY RESULT IN IRRITATION OF MUCOUS MEMBRANES. ACUTE: INHALE-HIGH VAPOR CONCENTRATIONS MAY CAUSE UPPER RESPIRATORY TRACT IRRITATION AND NARCOSIS. EYE-LIQUID OR VAPOR MAY CAUSE IRRITATION. SKIN-NO SPECIFIC HAZARD KNOWN.

Explanation of Carcino

genicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:MAY CAUSE HEADACHES, DROWSINESS, FATIGUE AND NARCOSIS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE, TREAT SYMPTOMATICALLY, AND GET MEDICAL ATTENTION IF SYMPTOMS PERSISTS. EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION.

REMOVE FROM AIRBORNE EXPOSURE, TREAT SYMPTOMATICALLY, AND GET MEDICAL ATTENTION IF SYMPTOMS PERSISTS.

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

Flash Point Method:TCC

Flash Point:59.0F,15.0C

Autoignition Temp:Autoignition Temp Text:420C

Lower Limits:3.9

Upper Limits:19.0

Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE, ALCOHOL FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING TO PREVENT CONTACT

WITH SKIN/EYES AND SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION AND FLASHBACK.

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

Spill Release Procedures:ELIMINATE ALL SOURCES OF IGNITION. SMALL SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. FOR LARGE SPILLS, USE WATER SPRAY TO DILUTE SPILL TO A NON-FL

FLAMMABLE MIXTURE. PREVENT
RUNOFF FROM ENTERING DRAINAGE, SEWERS OR STREAMS.
Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:MATERIAL IS CLASSIFIED AS A FLAMMABLE
LIQUID. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER
CLOSED. USE WITH ADEQUATE VENTILATION.

Other Precautions:SINCE EMPTIED PACKAGES RETAIN PRODUCT RESIDUE, FOLLOW
LABEL WARNINGS EVEN AFTER PACKAGE IS EMPTIED.

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

Respiratory Protection:AN APPROPRIATE NIOSH-APPROVED RESPIRATOR FOR
ORGANIC VAPORS SHOULD BE WORN IF NEEDED.

Ventilation:GENERAL: RECOMMENDED AT LEAST 10 AIR CHANGES PER HOUR FOR
GOOD GENERAL ROOM VENTILATION. LOCAL EXHAUST: IF NEEDED.

Protective Gloves:NONE SPECIFIED BY MANUFACTURER.

Eye Protection:SAFETY GLASSES/CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:AN EYE BATH AND WASHING FACILITIES SHOULD BE
AVAILABLE. WEAR RUBBER

BOOTS, APRONS, AND OTHER APPROPRIATE
PERSONAL PROTECTIVE

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

THIS PRODUCT IS EXPECTED TO HAVE A HIGH BIOLOGICAL OXYGEN DEMAND, AND
IT IS EXPECTED TO CAUSE SIGNIFICANT OXYGEN DEPLETION IN AQUATIC
SYSTEMS. IF DILUTED WITH LARGE AMOUNTS OF WATER AND RELEASED DIRECTLY
OR INDIRECTLY INTO THE ENVIRONMENT IS NOT EXPECTED TO HAVE A
SIGNIFICANT IMPACT.

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

HCC:F2

Boiling Pt:B.P. Text:172F,78C

Vapor Pressure:44

Vapor Density:1.59

Spec Gravity:0.79

Evaporation Rate & Reference:2.7

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR LIQUID - ALCOHOL ODOR.

Percent Volatiles by Volume:>99

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING MATERIALS CAN CAUSE A VIGOROUS REACTION.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION

ION

Hazardous Decomposition Products: CARBON MONOXIDE CAN FORM ON INCOMPLETE COMBUSTION.

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

Waste Disposal Methods: MIX WITH COMPATIBLE CHEMICAL WHICH IS LESS COMBUSTIBLE AND INCINERATE. OBSERVE ALL LOCAL, STATE AND FEDERAL LAWS CONCERNING HEALTH AND ENVIRONMENT.

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.