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THE POWER OF THREE³
PHARMCO-AAPER
AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

MATERIAL SAFETY DATA SHEETS

EUCALYPTUS CITRIADORA OIL (EUCALYPTUS CITRIODORA) (CITRONELLAL 75%)

Section I : PRODUCT IDENTIFICATION

Manufacturer: PHARMCO-AAPER
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Emergency Contact:
CHEMTREC 1-800-424-9300

Product Trade Name : EUCALYPTUS CITRIADORA OIL (EUCALYPTUS CITRIODORA) (CITRONELLAL 75%)

US DOT Hazard Class : N/A KEEP AWAY FROM CHILDREN

PH of Product : N/A

UN Number : N/A

Health : 1 Fire : 2 Reactivity : 0

Section II : HAZARDOUS INGREDIENTS

EXPOSURE LIMIT INFORMATION :

HAZARDOUS INGREDIENT(S) : EUCALYPTUS CITRIADORA OIL (EUCALYPTUS CITRIODORA) (CITRONELLAL 75%)

CAS NO. : 8000-48-4

FEMA NO. : 0

AMT. (%) :

OSHA TWA : 0 N/A

OSHA STEL : 0 N/A

ACGIH TWA : 0 N/A

ACGIH STEL : 0 N/A

Section III : PHYSICAL DATA

**PRODUCT NAME : EUCALYPTUS CITRIADORA OIL (EUCALYPTUS CITRIODORA)
(CITRONELLAL 75%)**

**APPEARANCE / ODOR : COLORLESS TO PALE YELLOW LIQUID / STRONG SWEET FRESH ROSY-
CITRONELLA BALSMIC-FLORAL**

SOLUBILITY IN WATER : INSOLUBLE

SPECIFIC GRAVITY : 0.85800 - 0.87700 @ 20.00 C

VAPOR PRESSURE : N/A

MELTING POINT : N/A

VAPOR DENSITY : N/A

BOILING POINT : N/A

VOLATILE BY VOLUME : 100.00

EVAPORATION RATE : N/A

Section IV : FIRE AND EXPLOSION HAZARD

FLASH POINT (Deg. F.) : 165.00 (73.89 Deg. C.) TCC
UPPER FLAMMABLE LIMIT (% BY VOLUME) : N/A
LOWER FLAMMABLE LIMIT (% BY VOLUME) : N/A

EXTINGUISHING MEDIA : Carbon Dioxide; Dry Chemical; Universal-Type Foam.

**SPECIAL FIRE FIGHTING PROCEDURES : Self-contained breathing apparatus and protective clothing
should be worn when fighting fires involving essential oils or chemicals.**

**UNUSUAL FIRE AND EXPLOSION HAZARD : None known to Pharmco-AAPER. Keep away from heat
and open flames.**

Section V : HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE : SKIN CONTACT : Yes INHALATION : No
EYE CONTACT : Yes SKIN ABSORPTION : No INGESTION : Yes

CARCINOGENICITY : OSHA : No IARC : No NTP : No ACGIH : No

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE : None known to Pharmco-AAPER.

EFFECTS OF OVEREXPOSURE : May be irritating to skin and eyes.

EYE CONTACT EFFECTS : May be irritating to eyes.

SKIN CONTACT EFFECTS : May be irritating to skin.

INHALATION EFFECTS : May be irritating if inhaled.

INGESTION EFFECTS : May be harmful if swallowed.

NOTE : The above effects are based on evaluation of individual components and the relevancy to the mixture as a whole or to humans is unknown.

EMERGENCY AND FIRST AID PROCEDURES :

EYE CONTACT : Flush immediately with clean water for at least 15 minutes. Contact a physician immediately.

SKIN CONTACT : Remove any contaminated clothing or shoes. Wash affected areas thoroughly with soap and water for at least 15 minutes. Contact a physician as necessary.

INHALATION : Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.

INGESTION : Wash out mouth with water and give water to dilute provided person is conscious. Contact a physician or local poison control center immediately.

Section VI : REACTIVITY DATA

CHEMICALLY STABLE : Yes

CONDITIONS TO AVOID : This product presents no significant reactivity hazard. It is stable and will not react violently with water. Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS : Avoid contact or contamination with strong acids, alkalis, or oxidizing agents.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS : Carbon monoxide and unidentified organic compounds may be formed during combustion.

Section VII : SPILL OR LEAK PROCEDURES

SPILL, LEAK AND WASTE DISPOSAL PROCEDURES : Eliminate all ignition sources. Ventilate area. Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Use of self-contained breathing apparatus is recommended for any major chemical spills. Report spills to appropriate authorities if required.

WASTE DISPOSAL METHODS : Place material and absorbent into sealed containers and dispose of in accordance with current applicable laws and regulation.

NOTE : Empty containers can have residues, gases and mists and are subject to proper waste disposal.

Section VIII : SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : None generally required. Use NIOSH approved respirator in confined area or if material is rated toxic.

VENTILATION PROTECTION : Local exhaust meeting ACGIH criteria as needed.

PROTECTIVE CLOTHING : Chemical resistant clothing is recommended.

PROTECTIVE GLOVES : Use chemical resistant gloves is recommended.

EYE PROTECTION : Use goggles or face shield is recommended.

OTHER PROTECTIVE EQUIPMENT : Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.

Section IX : SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE : Place material and absorbent into sealed containers and dispose of in accordance with current applicable laws and regulation.

OTHER PRECAUTIONS : Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area.

Section X : EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW (SARA III)

311 / 312 CATEGORIZATION (40CFR 370)

**FIRE : Yes SUDDEN RELEASE OF PRESSURE : No REACTIVITY : No
IMMEDIATE (ACUTE) : No DELAYED (CHRONIC) : No**

312 INFORMATION (40CFR 372)

This proprietary mixture contains the following toxic chemical(s) above the minimum concentrations subject to the requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986:

See Section II.

Section XI : PREPARATION DATE OF MSDS

DISCLAIMER

The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.