

An ISO 9001:2000
Certified Company



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300 or 202-483-7616

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: ETHYLENE GLYCOL MONOBUTYL ETHER, GLYCOL ETHER EB
This MSDS is valid for all grades and catalog numbers

General Information

Company's Name: PHARMCO PRODUCTS,
INC.
Company's Street: 58 VALE RD.
Company's City: BROOKFIELD
Company's State: CT
Company's Zip Code: 06804
Company's Emerg Ph #: (800) 424-9300
Chemtrec
Company's Info Ph #: (203) 740-3471

Date MSDS Revised: Nishant-8/23/99
Safety Data Review Date: 8/23/99
Preparer's Company: PHARMCO PRODUCTS,
INC.
Preparer's St Or P. O. Box: 58 VALE RD.
Preparer's City: BROOKFIELD
Preparer's State: CT
Preparer's Zip Code: 06804

1101 Isaac Shelby Drive
Shelbyville, KY 40065
Phone (502) 633-0650
Fax (502) 633-0685

Ingredients/Identity Information

Ingredient: 2-BUTOXYETHANOL
Ingredient Sequence Number: 01
Percent: >95
NIOSH (RTECS) Number: KJ8575000

CAS Number: 111-76-2
OSHA PEL: S, 50 PPM
ACGIH TLV: S, 25 PPM; 9293

Physical/Chemical Characteristics

Appearance And Odor:
LIQUID, CHARACTERISTIC ODOR
Boiling Point: 336-343F
Vapor Pressure (MM Hg/70 F): 0.88 MMHG

Vapor Density (Air=1): 4.1
Specific Gravity: 0.9
Evaporation Rate And Ref: 0.98
Percent Volatiles By Volume: 100

Fire and Explosion Hazard Data

Flash Point: 150F, 66C
Flash Point Method: TCC
Lower Explosive Limit: 1.1
Upper Explosive Limit: 10.6
Extinguishing Media: ALCOHOL FOAM, CO*2, DRY CHEMICAL, WATER FOG
Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A

FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire And Expl Hazrds: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM BECAUSE PRODUCT CAN IGNITE EXPLOSIVELY.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): NONE STATED

Materials To Avoid: STRONG OXIDIZING AGENTS.

Hazardous Decomp Products:

CO,CO*2,VARIOUS HYDROCARBONS

Hazardous Poly Occur: NO

Health Hazard Data

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: EYES: CAUSES IRRITATION, POSSIBLE CORNEAL INJURY. SKIN: CAN CAUSE SLIGHT IRRITATION. CAN BE ABSORBED IN TOXIC EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS. INGESTION: SLIGHTLY TOXIC.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Signs/Symptoms Of Overexp: INHALATION: DIZZINESS, WEAKNESS, FATIGUE, MAY PRODUCE SIGNS OF INTOXICATION CHARACTERIZED BY INCOORDINATION, DIZZINESS, DROWSINESS, HEADACHE, NAUSEA, MENTAL CONFUSION, POSSIBLY SLURRED SPEECH, AND STUPOR, DEPENDING IN THE QUANTITY INGESTED.

Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.

Emergency/First Aid Proc: SKIN:WASH WITH SOAP & WATER,REMOVE CONTAMINATED CLOTHING; EYE:FLUSH WITH LOT OF WATER,LIFT UPPER & LOWER EYELIDS OCCASIONALLY; ING:IF CONSCIOUS,DRINK TWO GLASSES OF WATER & INDUCE VOMITING

BY EITHER GIVING IPECAC OR BY PLACING FINGER AT BACK OF THROAT, NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON; INH:REMOVE TO FRESH AIR,IF BREATHING IS DIFFICULT,USE OXYGEN;IF BREATHING HAS STOPPED,USE ARTIF.RESPIR

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ELIMINATE ALL SOURCES OF IGNITION,WEAR PROTECTIVE CLOTHING,STOP LEAK AT SOURCE,DIKE AREA OF SPILL,PUMP LIQ TO SALVAGE TANK. REMAINING LIQ MAY BE TAKEN UP ON SAND,CLAY,EARTH,FLOOR ABSORBENT.

Waste Disposal Method: DESTROY BY LIQUID INCINERATION. CONTAMINATED ABSORBENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH LOCAL,STATE & FEDERAL REGULATIONS.

Control Measures

Respiratory Protection: WHEN TLV IS EXCEEDED,USE NIOSH/MSHA JOINTLY APPROVED AIR-SUPPLIED RESPIRATOR.

Ventilation: PROVIDE SUFFICIENT MECHANICAL AND/OR LOCAL EXHAUST.

Protective Gloves: NEOPRENE

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: IMPERVIOUS CLOTHING & BOOTS

Transportation Data

DOT PSN Code: GBB	IATA UN ID Number: 2369
DOT Proper Shipping Name: ETHYLENE GLYCOL MONOBUTYL ETHER	IATA Proper Shipping Name: ETHYLENE GLYCOL MONOBUTYL ETHER
DOT Class: 6.1	IATA UN Class: 6.1
DOT ID Number: UN2369	IATA Label: TOXIC *
DOT Pack Group: III	AFI PSN Code: LIK
DOT Label: KEEP AWAY FROM FOOD	AFI Prop. Shipping Name: ETHYLENE GLYCOL MONOBUTYL ETHER
IMO PSN Code: GVQ	AFI Class: 6.1
IMO Proper Shipping Name: ETHYLENE GLYCOL MONOBUTYL ETHER	AFI ID Number: UN2369
IMO Regulations Page Number: 6151	AFI Pack Group: III
IMO UN Number: 2369	AFI Label: KEEP AWAY FROM FOOD
IMO UN Class: 6.1	AFI Basic Pac Ref: 10-10
IMO Subsidiary Risk Label: -	N.O.S. Shipping Name: ETHYLENE GLYCOL MONOBUTYL ETHER
IATA PSN Code: LIK	

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

Common Name: GLYCOL ETHER EB
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-Moderate: X
Reactivity Hazard-None: X
Special Hazard Precautions: EYES: CAUSES IRRITATION, POSSIBLE CORNEAL
INJURY. SKIN: CAN CAUSE SLIGHT IRRITATION. CAN BE ABSORBED IN TOXIC
EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION
SKIN- THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE
CONTAMINATED
CLOTHING. EYES- IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST
15 MINUTES, LIFTING UPPER AND LOWER LIDS. GET MEDICAL ATTENTION. INGESTION-
IMMEDIATELY DRINK TWO GLASSES OF WATER AND INDUCE VOMITING. GET MEDICAL
ATTENTION IMMEDIATE
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y

Regulatory Data

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: **NONE**

The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.