

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

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: DIETHYLAMINE
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 #: (203) 740-3471
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

Ingredients/Identity Information

Ingredient: DIETHYLAMINE (CERCLA)
Ingredient Sequence Number: 01
Percent: 90-100
Ingredient Action Code: A

NIOSH (RTECS) Number: HZ8750000
CAS Number: 109-89-7
OSHA PEL: 25 PPM
ACGIH TLV: 5 PPM;15 STEL

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS LIQUID;
AMMONIA ODOR.
Boiling Point: 132F,56C
Melting Point: -58F,-50C
Vapor Pressure (MM Hg/70 F): 194 @ 20C
Vapor Density (Air=1): 2.5

Specific Gravity: 0.71 (H*2O=1)
Evaporation Rate And Ref: 16.9 (BUTYL
ACETATE=1)
Solubility In Water: COMPLETE
Percent Volatiles By Volume: 100
pH: N/A

Fire and Explosion Hazard Data

Flash Point: -20F,-29C
Flash Point Method: CC
Lower Explosive Limit: 1.8%
Upper Explosive Limit: 10.1%
Extinguishing Media: USE ALCOHOL FOAM,
DRY CHEMICAL OR CARBON DIOXIDE.
(WATER MAY BE INEFFECTIVE).
Special Fire Fighting Proc: USE NIOSH/MSHA
APPRVD SCBA & FULL PROT EQUIP

(FP N). MOVE CNTNRS FROM FIRE AREA IF
IT CAN BE DONE W/OUT RISK. USE WATER
TO KEEP FIRE-EXPOSED CNTNRS COOL.
Unusual Fire And Expl Hazrds: VAPS MAY FLOW
ALONG SURFS TO DIST IGNIT
SOURCES & FLASH BACK. CLSD CNTNRS
EXPOS TO HEAT MAY EXPLODE. CONT
W/STRONG
OXIDIZERS MAY CAUSE FIRE.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): HEAT, FLAME,
OTHER SOURCES OF IGNITION.
Materials To Avoid: STRONG ACIDS, STRONG
OXIDIZING AGENTS, MOST COMMON
METALS.

Hazardous Decomp Products: OXIDES OF
NITROGEN, CARBON MONOXIDE, CARBON
DIOXIDE.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50-LC50 Mixture: LD50:(ORAL,RAT) 540 MG/KG.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE:INHAL:SEVERE IRRITATION OF RESPIRATORY
SYSTEM, MAY CAUSE PULMONARY EDEMA. EYE CONTACT:SEVERE IRRITATION OR BURNS.
SKIN ABSORPTION:RAPID ABSORPTION. SKIN CONTACT:SEVERE IRRITATION OR BURNS,
PROLONGED CONTACT MAY CAUSE SENSITIZATION. INGEST:NAUSEA, VOMITING,
GASTROINTESTINAL IRRITATION, (EFTS OF OVEREXP)
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: HLTH HAZ:BURNS TO MOUTH & THROAT. CHRONIC: NONE
IDENTIFIED. TARGET ORGANS:RESPIRATORY SYSTEM, SKIN, EYES.
Med Cond Aggravated By Exp: NONE IDENTIFIED.

Emergency/First Aid Proc: INGEST:CALL MD. IF SWALLOWED, DO NOT INDUCE
VOMITING. IF CONSCIOUS, GIVE WATER, MILK OR MILK OF MAGNESIA. INHAL:REMOVE
TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING
IS DIFFICULT, GIVE OXYGEN. SKIN:FLUSH W/WATER. EYE:IMMEDIATELY FLUSH W/
PLENTY OF WATER FOR AT LEAST 15 MINUTES.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT
CLTHG. SHUT OFF IGNIT SOURCES; NO FLARES, SMOKING/FLAMES IN AREA. STOP LEAK
IF YOU CAN DO SO W/OUT RISK. USE WATER SPRAY TO REDUCE VAPS. TAKE UP W/SAND
OR OTHER NON-COMBUST ABSORB MATL & PLACE INTO (SUPP DATA)
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE & LOCAL
ENVIRONMENTAL REGULATIONS. EPA HAZARDOUS WASTE NUMBERS:D001, D002
(IGNITABLE, CORROSIVE WASTE).
Precautions-Handling/Storing: KEEP CNTNR TIGHTLY CLSD. STORE IN COOL, DRY,
WELL-VENTILATED FLAMM LIQ STORAGE AREA. BOND & GROUND CNTNRS WHEN
TRANSFERRING LIQUID. HIGHLY FLAMM.
Other Precautions: EXTREMELY FLAMM. CAUSES SEV IRRIT. HARMFUL IF
SWALLOWED/INHALED. KEEP AWAY FROM HEAT, SPKS, FLAME. AVOID CONT W/EYES,
SKIN, CLTHG. AVOID BRTHG VAP. USE W/ADEQ VENT. IRRIT TO EYES, RESP SYS &
SKIN. KEEP AWAY FROM SOURCES OF IGNIT - (SUPDAT)

Control Measures

Respiratory Protection: NIOSH/MSHA APPROVED RESP PROT REQUIRED IF AIRBORNE
CONC EXCEEDS TLV. AT CONCS UP TO 1500 PPM, A NIOSH/MSHA APPRVD CHEM
CARTRIDGE RESP W/AMMONIA OR AMINE CARTRIDGE IS REC. ABOVE THIS LEVEL, A
NIOSH/MSHA APPRVD SCBA IS ADVISED.
Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV
REQUIREMENTS. VENT HOOD.
Protective Gloves: NEOPRENE GLOVES.

Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS(SUPDAT)
Other Protective Equipment: EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET
ANSI DESIGN CRITERIA (FP N). UNIFORM, APRON, LAB COAT ARE REC.
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.
Suppl. Safety & Health Data: SPILL PROC:CONTAINER FOR LATER DISPOSAL.
FLUSH AREA W/WATER. OTHER PREC:NO SMOKING. DO NOT EMPTY INTO DRAINS. EYE
PROT:& FULL LENGTH FACESHIELD (FP N).

Transportation Data

DOT: Diethylamine, 3, UN1154, PG II

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

Common Name: DIETHYLAMINE, 9216	SENSITIZATION.
Chronic Hazard: NO	INGEST:NAUSEA, VOMITING,
Signal Word: DANGER!	GASTROINTESTINAL IRRITATION, BURNS TO
Acute Health Hazard-Moderate: X	MOUTH &
Contact Hazard-Moderate: X	THROAT. CHRONIC:NONE LISTED BY
Fire Hazard-Severe: X	MANUFACTURER. TARGET
Reactivity Hazard-None: X	ORGANS:RESPIRATORY
Special Hazard Precautions: EXTREMELY	SYSTEM, SKIN, EYES.
FLAMMABLE. ACUTE:INHAL:SEVERE	Protect Eye: X
SEVERE IRRITATION OR BURNS,	Protect Skin: X
PROLONGED CONTACT MAY CAUSE	
Protect Respiratory: X	

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.