



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

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: N Butyl alcohol
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: BUTANOL, N-BUTYL ALCOHOL, PROPYL CARBINOL, BUTYL ALCOHOL
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: EO1400000
CAS Number: 71-36-3
OSHA PEL: 100 PPM
ACGIH TLV: C 152 MG/CUM
Other Recommended Limit: 300 MG/CUM

Physical/Chemical Characteristics

Appearance And Odor: CLEAR, COLORLESS LIQUID W/A SHARP ALCOHOLIC ODOR
Boiling Point: 243.5F
Melting Point: -130F
Vapor Pressure (MM Hg/70 F): 4.4
Vapor Density (Air=1): 2.55
Specific Gravity: 0.807
Evaporation Rate And Ref: (BU AC=1): 0.5
Solubility In Water: 7.8%
Percent Volatiles By Volume: 100

Fire and Explosion Hazard Data

Flash Point: 84.2F
Flash Point Method: TCC
Lower Explosive Limit: 1.4
Upper Explosive Limit: 11.2
Extinguishing Media: CO2, DRY CHEMICAL/ALCOHOL FOAM
Special Fire Fighting Proc: WEAR FULL PROTECTIVE CLOTHING & SELF CONTAINED BREATHING APPARATUS. KEEP FIRE EXPOSED CONTAINERS COOL W/WATER SPRAY.
Unusual Fire And Expl Hazrds: FLAMMABLE. HEAT WILL BUILD PRESSURE & MAY RUPTURE CLOSED STORAGE CONTAINERS. AUTO-IGNITION TEMP: 649.4F.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HEAT, SPARKS, OPEN FLAME, OPEN CONTAINERS, POOR VENTILATION & DIRECT SUNLIGHT.
Materials To Avoid: STRONG OXIDIZING AGENTS, STRONG ACIDS & BASES.
Hazardous Decomp Products: CO & OTHER TOXIC VAPORS.
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: INHALATION: IRRITATION TO THE MUCOUS MEMBRANES. EYES: IRRITATION. SKIN: IRRITATION/DERMATITIS/TOXIC EFFECTS THROUGH ABSORPTION. INGESTION: GASTROINTESTINAL TRACT IRRITATION. PRODUCT IS A MUCOUS MEMBRANE IRRITANT & CNS DEPRESSANT.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: IRRITATION, LACHRYMATION, PHOTOPHOBIA, HEADACHE, DIZZINESS, NAUSEA, INCOORDINATION, DROWSINESS, BLURRING OF VISION, DEFATTING, GI DISCOMFORT.
Med Cond Aggravated By Exp: INDIVIDUALS SUSCEPTIBLE TO DERMATITIS. SIMULTANEOUS EXPOSURE TO N-BUTYL ALCOHOL & ETHYL ALCOHOL CAN INCREASE THE TOXIC HAZARDS OF N-BUTYL ALCOHOL.
Emergency/First Aid Proc: INHALATION: REMOVE TO FRESH AIR. ADMINISTER CPR FLUSH THOROUGHLY FOR 15 MINS. WASH W/SOAP & WATER. INGESTION: ASPIRATION HAZARD-DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: PROTECT FROM IGNITION. WEAR PROTECTIVE CLOTHING & USE APPROVED RESPIRATOR EQUIPMENT. ABSORB MATERIAL IN AN ABSORBENT RECOMMENDED FOR SOLVENT SPILLS & REMOVE TO A SAFE LOCATION FOR

DISPOSAL BY APPROVED METHODS.

Waste Disposal Method: DISPOSE OF AS AN EPA HAZARDOUS WASTE IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS. FLAMMABLE LIQUID NA1120. HAZARDOUS WASTE NO: U031 (IGNITABLE); D001 (IGNITABLE).

Precautions-Handling/Storing: PROTECT FROM EXTREME TEMPS & DIRECT SUNLIGHT. STORE IN AN ACCEPTABLY PROTECTED & SECURE FLAMMABLE LIQUID STORAGE ROOM.

Other Precautions: GROUND & BOND METAL CONTAINERS TO MINIMIZE STATIC SPARKS.

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Control Measures

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Respiratory Protection: USE APPROVED RESPIRATOR EQUIPMENT (AIR-PURIFYING, AIR-SUPPLIED/SELF CONTAINED BREATHING APPARATUS).

Ventilation: LOCAL/GENERAL DEPENDING ON THE CONDITIONS OF USE, QUANTITY OF MATERIAL & OTHER OPERATING PARAMETERS.

Protective Gloves: NEOPRENE/RUBBER/NITRILE RUBBER

Eye Protection: SAFETY GLASSES, GOGGLES/FACE SHIELD.

Other Protective Equipment: CHEMICAL RESISTANT CLOTHING, EYE WASH FOUNTAINS & SAFETY SHOWERS

Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. REMOVE/DISCARD CONTAMINATED SHOES.

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Transportation Data

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DOT: Butanol, 3, UN1120, PG III

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Disposal Data

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Refer to applicable regional, state and federal codes.

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Label Data

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Common Name: N-BUTYL ALCOHOL

Special Hazard Precautions: INHALATION: IRRITATION TO THE MUCOUS MEMBRANES. EYES: IRRITATION. SKIN: IRRITATION/DERMATITIS/TOXIC EFFECTS THROUGH ABSORPTION. INGESTION: GASTROINTESTINAL TRACT IRRITATION. PRODUCT IS A MUCOUS MEMBRANE IRRITANT & CNS DEPRESSANT. IRRITATION, LACHRYMATION, PHOTOPHOBIA, HEADACHE, DIZZINESS, NAUSEA, INCOORDINATION, DROWSINESS, BLURRING OF VISION, DEFATTING, GI DISCOMFORT.

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.