



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

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: sec- 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: SEC-BUTYL ALCOHOL (SARA III)
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: EO1750000
CAS Number: 78-92-2
OSHA PEL: 100 PPM
ACGIH TLV: 100 PPM; 9192
Other Recommended Limit: NONE RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS LIQUID WITH A STRONG ODOR.
Boiling Point: 21.0F,-6.1C
Melting Point: -174F,-114C

Vapor Pressure (MM Hg/70 F): 12 MMHG
Vapor Density (Air=1): 2.6
Specific Gravity: 0.8
Autoignition Temperature: 761F

Fire and Explosion Hazard Data

Flash Point: 75.0F,23.9C
Flash Point Method: CC

Lower Explosive Limit: 1.7
Upper Explosive Limit: 9.8
Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR ALCOHOL-RESISTANT FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR FOAM.
Special Fire Fighting Proc: MOVE CONTAINERS FROM FIRE AREA IF WITHOUT RISK. APPLY COOLING WATER TO SIDES OF CONTAINER THAT ARE EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS OUT.
Unusual Fire And Expl Hazrds: DANGEROUS FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION & FLASHBACK.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.
Materials To Avoid: STRONG ACIDS, ALKALI METALS, ALUMINUM, STRONG BASES, ORGANIC PEROXIDES, STRONG OXIDIZERS, CHLORINE, NITROGEN TETRAOXIDES.
Hazardous Decomp Products: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NONE

Health Hazard Data

LD50-LC50 Mixture: ORAL LD50 (RAT) IS 4893 MG/KG
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE: INHALE-MAY IRRITATE THE RESPIRATORY TRACT. SKIN-MAY CAUSE SLIGHT IRRITATION. EYE-MAY CAUSE MODERATE TO SEVERE IRRITATION. INGESTION-MAY CAUSE ABDOMINAL DISCOMFORT. CHRONIC: SKIN-MAY CAUSE DRYING, CRACKING & DERMATITIS DUE TO DEFATTING.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT CARCINOGENIC.
Signs/Symptoms Of Overexp: INHALE-MAY CAUSE SORE THROAT, COUGHING & SHORTNESS OF BREATH. SKIN-MAY CAUSE REDNESS EYE-REDNESS, PAIN, BLURRED VISION, CONJUNCTIVITIS & CORNEAL BURNS. INGESTION-MAY CAUSE NAUSEA, VOMITING, DIARRHEA, HEADACHE, DULLNESS, DROWSINESS AND UNCONSCIOUSNESS.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: INHALE-REMOVE FROM EXPOSURE AREA TO FRESH AIR. IF BREATHING HAS STOPPED, PERFORM CPR. KEEP WARM & AT REST. GET MEDICAL ATTENTION. SKIN-REMOVE SOILED CLOTHING. WASH AREA WITH SOAP & WATER. GET MEDICAL ATTENTION. EYES-WASH EYES WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, FOR 15-20 MIN. GET MEDICAL ATTENTION. INGESTION-INDUCE EMESIS BY GIVING SYRUP OF IPECAC OR GASTRIC LAVAGE. SEE PHYSICIAN.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SHUT OFF IGNITION SOURCES. STOP LEAK

WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPORS. ABSORB WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY, ISOLATE HAZARD AREA & DENY ENTRY.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH STANDARD APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 40 CFR 262. EPA HAZARDOUS WASTE NUMBER D001. 100 LBS CERCLA SECTION 103 REPORTABLE QUANTITY.

Precautions-Handling/Storing: STORE AWAY FROM INCOMPATIBLE SUBSTANCES. STORE IN ACCORDANCE WITH 29 CFR 1910.106.

Other Precautions: OBSERVE ALL FEDERAL AND STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS MATERIAL. FOR ASSISTANCE CONTACT THE DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

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Control Measures

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Respiratory Protection: THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST NOT EXCEED THE LIMITS OF

THE RESPIRATOR AND MUST BE JOINTLY APPROVED BY NIOSH AND MSHA.

Ventilation: PROVIDE GENERAL DILUTION VENTILATION. VENTILATION EQUIPMENT MUST BE EXPLOSION-PROOF.

Protective Gloves: WEAR PROTECTIVE GLOVES.

Eye Protection: SPLASH-PROOF/DUST-RESISTANT GOGGLES.

Other Protective Equipment: EMPLOYEE MUST WEAR APPRIOPIATE PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

Work Hygienic Practices: EMERGENCY EYEWASH WHERE THERE IS A POSSIBILITY OF AN EMPLOYEE EYE CONTACT THE MATERIAL.

Suppl. Safety & Health Data: NONE

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Transportation Data

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DOT PSN Code: AHF
DOT Proper Shipping Name: ALCOHOLS,
N.O.S.
DOT Class: 3
DOT ID Number: UN1987
DOT Pack Group: II
DOT Label: FLAMMABLE LIQUID
IMO PSN Code: AMT
IMO Proper Shipping Name: ALCOHOLS,
N.O.S.
IMO Regulations Page Number: 3175
IMO UN Number: 1987
IMO UN Class: 3.2
IMO Subsidiary Risk Label: -
IATA PSN Code: ARC

IATA UN ID Number: 1987
IATA Proper Shipping Name: ALCOHOLS,
N.O.S. *
IATA UN Class: 3
IATA Label: FLAMMABLE LIQUID
AFI PSN Code: ARF
AFI Prop. Shipping Name: ALCOHOLS,
N.O.S.
AFI Class: 3
AFI ID Number: UN1987
AFI Pack Group: II
AFI Label: FLAMMABLE LIQUID
AFI Basic Pac Ref: 7-7
MMAC Code: NR

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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: SEC-BUTYL ALCOHOL

Chronic Hazard: YES

Signal Word: DANGER!

Acute Health Hazard-Severe: X

Contact Hazard-Slight: X

Fire Hazard-Moderate: X

Reactivity Hazard-None: X

Special Hazard Precautions: SPILL: SHUT OFF IGNITION SOURCES. STOP LEAK WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPORS. ABSORB WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL. KEEP INHALE-REMOVE FROM EXPOSURE AREA TO FRESH AIR. IF BREATHING HAS STOPPED, PERFORM CPR. KEEP WARM & AT REST. GET MEDICAL ATTENTION. SKIN-REMOVE SOILED

CLOTHING. WASH AREA WITH SOAP & WATER. GET MEDICAL ATTENTION. EYES-WASH EYES WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, FOR 15-20 MIN. GET MEDICAL ATTENTION. INGESTION-INDUCE EMESIS BY GIVING SYRUP OF IPECAC OR GASTRIC LAVAGE. SEE PHYSICIAN

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

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.