



An ISO 9001:2000
Certified Company

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 that start with catalog number 305

General Information

Company's Name: PHARMCO PRODUCTS, INC.	Safety Data Review Date: 8/23/99
Company's Street: 58 VALE RD.	Preparer's Company: PHARMCO PRODUCTS, INC.
Company's City: BROOKFIELD	Preparer's St Or P. O. Box: 58 VALE RD.
Company's State: CT	Preparer's City: BROOKFIELD
Company's Zip Code: 06804	Preparer's State: CT
Company's Emerg Ph #: (203) 740-3471	Preparer's Zip Code: 06804
Company's Info Ph #: (203) 740-3471	
Date MSDS Revised: Nishant-8/23/99	

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.	Vapor Pressure (MM Hg/70 F): 12 MMHG
Boiling Point: 21.0F,-6.1C	Vapor Density (Air=1): 2.6
Melting Point: -174F,-114C	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.

Control Measures

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 APPRIOPATE 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

Transportation Data

DOT PSN Code: AHF	IATA UN ID Number: 1987
DOT Proper Shipping Name: ALCOHOLS, N.O.S.	IATA Proper Shipping Name: ALCOHOLS, N.O.S.
DOT Class: 3	*
DOT ID Number: UN1987	IATA UN Class: 3
DOT Pack Group: II	IATA Label: FLAMMABLE LIQUID
DOT Label: FLAMMABLE LIQUID	AFI PSN Code: ARF
IMO PSN Code: AMT	AFI Prop. Shipping Name: ALCOHOLS, N.O.S.
IMO Proper Shipping Name: ALCOHOLS, N.O.S.	AFI Class: 3
IMO Regulations Page Number: 3175	AFI ID Number: UN1987
IMO UN Number: 1987	AFI Pack Group: II
IMO UN Class: 3.2	AFI Label: FLAMMABLE LIQUID
IMO Subsidiary Risk Label: -	AFI Basic Pac Ref: 7-7
IATA PSN Code: ARC	MMAC Code: NR

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

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: SHUTT 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.

