



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: tert Butyl alcohol
This MSDS is valid for all grades that start with catalog number 306

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: TERT-BUTYL ALCOHOL (SARA III)	CAS Number: 75-65-0
Ingredient Sequence Number: 01	OSHA PEL: 100 PPM
Percent: >99	ACGIH TLV: 100PPM 9394
NIOSH (RTECS) Number: EO1925000	Other Recommended Limit: NOT ESTABLISHED

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS, HYGROSCOPIC LIQUID OR CRYSTALS WITH CAMPOR ODOR	Vapor Density (Air=1): 2.6
Boiling Point: 180F,82C	Specific Gravity: 0.80
Melting Point: 78.0F,25.6C	Evaporation Rate And Ref: 1.05 (BUTYL ACETATE=1)
Vapor Pressure (MM Hg/70 F): 31	Solubility In Water: SOLUBLE
	Autoignition Temperature: 896F

Fire and Explosion Hazard Data

Flash Point: 52.0F,11.1C
Flash Point Method: CC
Lower Explosive Limit: 2.4
Upper Explosive Limit: 8.0
Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY OR ALCOHOL FOAM
Special Fire Fighting Proc: MOVE FROM FIRE AREA, IF POSSIBLE. USE FLOODING AMOUNTS OF WATER AS A FOG, SOLID STREAMS MAY BE INEFFECTIVE. AVOID BREATHING VAPORS, KEEP UPWIND.
Unusual Fire And Expl Hazrds: CONTAINERS MAY BURST WHEN EXPOSED TO HEAT OF FIRE.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): STABLE IN CLOSED CONTAINERS UNDER NORMAL TEMPERATURES AND PRESSURES.

Materials To Avoid: ALKALI METALS, ALUMINUM, CHROMIUM TRIOXIDE, OXIDIZERS, PLASTICS, MINERAL ACIDS, HYDROCHLORIC ACID.

Hazardous Decomp Products: STRONG MINERAL ACIDS OR THERMAL-OXIDATIVE REACTIONS CAUSE DECOMPOSITION & MAY RELEASE CARBON MONOXIDE OR ISOBUTYLENE GAS

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NOT APPLICABLE

Health Hazard Data

LD50-LC50 Mixture: LD50 (ORAL RAT) IS 3500 MG/KG

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: ACUTES: INHALE- SHORTNESS OF BREATH, CNS DEPRESSION, SKIN-REDNESS, IRRITATION, ERYTHEMA, HYPEREMIA. EYE- IRRITATION, REDNESS, PAIN, BLURRED VISION. INGEST- ABDOMINAL PAIN, CNS DEPRESSION, LIVER DAMAGE. CHRONIC: EYE- CONJUNCTIVITIS. SKIN- DRYING AND CRACKING. INHALE- REVERSIBLE LIVER, KIDNEY, AND HEART.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Signs/Symptoms Of Overexp: IRRITATION, COUGHING, SHORTNESS OF BREATH, DIZZINESS, DROWSINESS, VERTIGO, NAUSEA, VOMITING, FATIGUE, REDNESS OF THE SKIN AND EYE WITH PAIN AND BLURRED VISION.

Med Cond Aggravated By Exp: PERSONS WITH PRE-EXISTING SKIN, LIVER, KIDNEY, OR RESPIRATORY DISEASE MAY BE AT AN INCREASED RISK FROM EXPOSURE.

Emergency/First Aid Proc: INHALATION: REMOVE SUBJECT TO FRESH AIR, IF BREATHING STOPPED GIVE ARTIFICIAL RESPIRATION. EYE: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INGESTION: INDUCE VOMITING BY PLACING FINGER AT THE BACK OF THE THROAT. GET IMMEDIATE MEDICAL ATTENTION.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WIPE OR SOAK UP SMALL SPILLS WITH PAPER TOWEL OR INERT ABSORBANT. DIKE TO RETAIN LARGE SPILLS. REMOVE RESIDUE WITH INERT ABSORBANT. PLACE IN DISPOSAL CONTAINER. ISOLATE HAZARD AREA AND DENY ENTRY. NO SMOKING OR OPEN FLAMES IN THE AREA.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

Precautions-Handling/Storing: STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT AND IGNITION SOURCES. KEEP CONTAINERS CLOSED.

Other Precautions: VAPOR HAZARD INDOORS, OUTDOORS OR IN SEWERS, RUN-OFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

Control Measures

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION

EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation: MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA IS NOT VENTED.

Protective Gloves: RUBBER

Eye Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment: SAFETY SHOWER AND EYE BATH. OTHER EQUIPMENT AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Transportation Data

DOT Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.
DOT Class: 3
DOT ID Number: UN1993
DOT Pack Group: II
DOT Label: FLAMMABLE LIQUID
IMO PSN Code: HIM
IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. *
IMO Regulations Page Number: 3126
IMO UN Number: 1993
IMO UN Class: 3.1
IATA PSN Code: MBV

IATA UN ID Number: 1993
IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. * *
IATA UN Class: 3
IATA Label: FLAMMABLE LIQUID
AFI PSN Code: MBV
AFI Prop. Shipping Name: FLAMMABLE LIQUIDS, N.O.S. *
AFI Class: 3
AFI ID Number: UN1993
AFI Pack Group: II
AFI Label: FLAMMABLE LIQUID
AFI Basic Pac Ref: 7-7

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

Special Hazard Precautions: MAY BE POISONOUS IF INHALED OR ABSORBED THROUGH SKIN. VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION. CONTACT MAY IRRITATE OR BURN SKIN AND EYES. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES. RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

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.