



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

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: ACETONITRILE
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: ACETONITRILE (SARA III)
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: AL7700000

CAS Number: 75-05-8
OSHA PEL: 40 PPM; 60 STEL
ACGIH TLV: 40 PPM; 60 STEL

Physical/Chemical Characteristics

Appearance And Odor: CLEAR, COLORLESS LIQUID WITH A SWEET, ETHER-LIKE ODOR.
Boiling Point: 179F, 82C
Melting Point: -47F, -44C
Vapor Pressure (MM Hg/70 F): 72.8

Vapor Density (Air=1): 1.4(AIR=1)
Specific Gravity: 0.78 (H₂O=1)
Evaporation Rate And Ref: 5 (BUAC=1)
Solubility In Water: @ 20C COMPLETE
Percent Volatiles By Volume: 100

Fire and Explosion Hazard Data

Flash Point: 42.1F,5.6C
Flash Point Method: CC
Lower Explosive Limit: 4.4%
Upper Explosive Limit: 16.0%
Extinguishing Media: CARBON DIOXIDE,
DRY CHEMICAL, ALCOHOL FOAM,
WATER MIST OR FOG.

Special Fire Fighting Procedure: WEAR
NIOSH/MSHA APPROVED SCBA & FULL
PROT EQUIP(FP N). HEAT WILL BUILD
PRESS & RUPTURE CLSD STOR CNTNRS.
WATER SPRAY MAY BE INEFTIVE
DIRECTLY ON FIRE,(SUPP DATA)
Unusual Fire and Explosive Hazards: VERY
VOLATILE & EXTREMELY FLAMMABLE.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): HEAT, SPARKS, OPEN FLAME, OPEN CONTAINERS, AND
POOR VENTILATION.
Materials To Avoid: STRONG OXIDIZING AGENTS & STRONG ACIDS AND BASES.
Hazardous Decomp Products: INCOMPLETE COMBUST CAN GENERATE HYDROGEN
CYANIDE & OTHER TOXIC VAPORS. THERM DECOMP MAY OCCUR AT TEMPS >120C.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT.
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Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: INHAL: EXPOSURE CAN CAUSE HEADACHE, WEAKNESS,
NAUSEA, REDUCED PULSE RATE & BLOOD PRESS, PALE/ASHEN SKIN, SUBNORMAL
TEMPS, SHALLOW
RESP, CONVULSION, COLLAPSE & DEATH AT HIGH CONC. EYE: LIQ & HIGH VAP CONC
CAN CAUSE IRRIT. SKIN: CAN CAUSE IRRIT & SAME SYSTEMIC SYMPTOMS AS INHAL.
INGEST: INGESTING >2 OUNCES OF (EFTS OF OVEREXP)
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT.
Signs/Symptoms Of Overexp: HEALTH HAZARD: ACETONITRILE CAN HAVE AN ADVERSE EFT
ON CNS. ACETONITRILE IS IRRIT & CHEM ASPHYX. ACUTE EXPOS THRU INHAL,
INGEST/SKIN ABSORP CAUSES DIZZ, HDCH, VOMIT, DROW, CHEST PAIN, UNCON, SHOCK
& DEATH. SEVERAL HOURS MAY ELAPSE BETWEEN EXPOS & INITIATION OF SYMPTOMS
DUE
TO SLOW RELEASE OF CYANIDE. CHRONIC EXPOS (SUPP DATA)
Med Cond Aggravated By Exp: PRECLUDE FROM EXPOSURE THOSE INDIVIDUALS WITH
DISEASES OF LIVER, KIDNEYS, SKIN AND CENTRAL NERVOUS SYSTEM.
Emergency/First Aid Proc: INHAL: IMMED REMOVE TO FRESH AIR. IF NOT BREATHING,
ADMIN MOUTH-TO-MOUTH RESCUE BREATHING. IF THERE IS NO PULSE ADMINISTER
CARDIOPULM
RESUS(CPR). CONTACT MEDICAL PERSONNEL IMMEDIATELY. USE AMYL NITRITE
AMPULES FOR 30 SECONDS IN CASES
OF SEVERE EXPOS & POSS CYANIDE POISONING. EYE: RINSE W/ COPIOUS AMTS OF
WATER FOR AT LEAST 15 MINS. GET EMERGENCY MEDICAL ASSISTANCE. SKIN: FLUSH
THOROUGHLY FOR AT LEAST 15 MINS. WASH AFFECTED SKIN W/ SOAP & (SUPP DATA)

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: PROTECT FROM IGNIT. WEAR PROTECTIVE CLOTHING & USE NIOSH/MSHA APPROVED RESPIRATORY EQUIPMENT. ABSORB SPILLED MATERIAL IN ABSORB RECOMM FOR SOLV
SPILLS & REMOVE TO SAFE LOCATION FOR DISPOSAL BY APPROVED METHODS. IF RELEASED TO ENVIRONMENT, COMPLY W/ALL REGULATORY NOTIFICATION REQS.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: DISP OF ACETONITRILE AS EPA HAZ WASTE. CONT STATE ENVIRON AGENCY FOR LISTING OF LICENSED HAZARD WASTE DISPOSAL FACILITIES & APPLIC U003 (IGNITABLE,TOXIC); DOO1 (IGNITABLE).
Precautions-Handling/Storing: ACETONITRILE SHLD BE PROTECTED FROM TEMP EXTREMES/DIRECT SUNLIGHT. PROPER STOR OF ACETONITRILE MUST BE DETERMINED BASED ON OTHER MATLS STOR (ING 4)
Other Precautions: GROUND AND BOND METAL CONTAINERS TO MINIMIZE STATIC SPARKS.

Control Measures

Respiratory Protection: USE NIOSH/MSHA APPRVD RESP EQUIP. FOLLOW NIOSH/MSHA & EQUIP MFR'S RECOMM TO DETERMINE APPROPRIATE EQUIPMENT (AIR-PURIFYING, AIR-SUPPLIED, OR SELF-CONTAINED BREATHING APPARATUS).
Ventilation: ADEQ VENT IS REQD TO PROTECT PERS FROM EXPOS TO CHEM VAPS EXCEEDING PEL & TO MIN FIRE HAZS. CHOICE OF VENT (ING 7)
Protective Gloves: NEOPRENE/RUBBER GLOVES.
Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).
Other Protective Equipment: PROT CLTHG IS RECOMM. EMER EYE WASH FOUNTAINS & SAFETY SHOWERS SHLD BE AVAIL IN VICIN OF ANY PTNTL EXPOS.
Work Hygienic Practices: WASH CLOTHING BEFORE RE-USE, AND DISCARD SHOES.
Suppl. Safety & Health Data: FIRE FIGHT PROC:BUT SHLD BE USED TO COOL FIRE-EXPOS CNTNRS. EFTS OF OVEREXP:CAN PRDCE DMG TO LIVER/KIDNEYS. FIRST CALL LOCAL POISON CONTROL CENTER FOR ASSIST. CONT MD IMMED. NEVER INDUCE VOMIT/GIVE ANYTHING BY MOUTH TO UNCON/CONVULSING (ING 2)

Transportation Data

DOT PSN Code: JJZ	AFI PSN Code: QSP
DOT Proper Shipping Name: METHYL CYANIDE	AFI Prop. Shipping Name: METHYL CYANIDE
DOT Class: 3	AFI Class: 3
DOT ID Number: UN1648	AFI ID Number: UN1648
DOT Pack Group: II	AFI Pack Group: II
DOT Label: FLAMMABLE LIQUID, POISON	AFI Label: FLAMMABLE LIQUID, POISON
IATA PSN Code: QSP	AFI Basic Pac Ref: 7-7

Disposal Data

Refer to applicable regional, state and federal codes.

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Label Data
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Common Name: ACETONITRILE
Chronic Hazard: YES
Signal Word: DANGER!
Acute Health Hazard-Slight: X
Contact Hazard-Moderate: X
Fire Hazard-Severe: X
Reactivity Hazard-None: X
Special Hazard Precautions: FLAMMABLE LIQUID! PROTECT FROM TEMP EXTREMES &
DIRECT SUNLIGHT. ACUTE: INHAL: EXPOS CAN CAUSE HDCH, WEAK, NAUS,REDUCED
PULSE RATE & BLOOD PRESS, PALE/ASHEN SKIN, SUBNORMAL TEMPS, SHALLOW RESP,
CONVULSION, COLLAPSE & DEATH AT HIGH CONC. EYE: LIQUID & HIGH VAP CONC CAN
CAUSE IRRIT. SKIN: CAN CAUSE IRRIT & SAME SYSTEMIC SYMPTOMS AS INHAL.
INGEST: GREATER THAN 2 OUNCES OF ACETONITRILE CAN HAVE AN ADVERSE EFT ON
CENTRAL NERVOUS SYSTEM. SEVERAL HOURS MAY ELAPSE BETWEEN EXPOS &
INITIATION
OF SYMPS DUE TO SLOW RELEASE OF CYANIDE. CHRONIC: CAN PRODUCE DAMAGE TO
LIVER/KIDNEYS.
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.