

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

# **MATERIAL SAFETY DATA SHEETS**

Part Number/Trade Name: ACETIC ANHYDRIDE This MSDS is valid for all grades and catalog numbers \_\_\_\_\_\_ General Information \_\_\_\_\_\_ Company's Name: PHARMCO PRODUCTS, Date MSDS Revised: Nishant-8/23/99 Safety Data Review Date: 8/23/99 Company's Street: 58 VALE RD. Preparer's Company: PHARMCO PRODUCTS, Company's City: BROOKFIELD INC. Company's State: CT Preparer's St Or P. O. Box: 58 VALE RD. Company's Zip Code: 06804 Preparer's City: BROOKFIELD Company's Emerg Ph #: (203) 740-3471 Preparer's State: CT Company's Info Ph #: (203) 740-3471 Preparer's Zip Code: 06804 \_\_\_\_\_\_ Ingredients/Identity Information Ingredient: ACETIC ANHYDRIDE (SARA III) Ingredient Sequence Number: 01 Percent: 100 NIOSH (RTECS) Number: AK1925000 CAS Number: 108-24-7 OSHA PEL: 5 PPM ACGIH TLV: 5 PPM; 9394 Other Recommended Limit: NONE RECOMMENDED \_\_\_\_\_\_ Physical/Chemical Characteristics \_\_\_\_\_\_\_ Appearance And Odor: CLEAR, COLORLESS Specific Gravity: 1.082 MOBILE LIQUID WITH A VERY SHARP, Decomposition Temperature: UNKNOWN

Evaporation Rate And Ref: 0.46 (BUTYL

Solubility In Water: COMPLETE Percent Volatiles By Volume: 100

Corrosion Rate (IPY): UNKNOWN

ACETATE = 1

STRONG, PUNGENT VINEGAR ODOR.

Boiling Point: 284F,140C

Melting Point: -99F,-73C

Vapor Density (Air=1): 3.52

Vapor Pressure (MM Hg/70 F): 10

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### Fire and Explosion Hazard Data

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Flash Point: 120F,49C Flash Point Method: CC Lower Explosive Limit: 2.7 Upper Explosive Limit: 10.3

Extinguishing Media: CARBON DIOXIDE, HALON, DRY CHEMICAL, ALCOHOL FOAM. WATER

SPRAY MAY BE INEFFECTIVE AS AN EXTINGUISHANT.

Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS

WITH WATER FOG.KEEP UPWIND OF FIRE.

Unusual Fire And Expl Hazrds: VAPORS ARE HEAVIER THAN AIR, CAN TRAVEL DISTANCES ALONG THE GROUND, AND FLASHBACK AT THE SOURCE.

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### Reactivity Data

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Stability: NO

Cond To Avoid (Stability): AVOID CONTACT WITH WATER. SLOWLY HYDROLIZES. ACETIC ACID FORMED MAY CATALIZE A VIOLENT, EXOTHERMIC REACTION. Materials To Avoid: AVOID CONTACT WITH WATER, ACIDS AND OXIDIZING AGENTS,

COMBUSTIBLE MATERIALS.

Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE.

Hazardous Poly Occur: NO

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## Health Hazard Data

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Route Of Entry - Inhalation: YES Route Of Entry - Skin: YES Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: ACUTE: CORROSIVE. LACRIMATOR. SEVERE EYE

BURNS. SKIN SENSITIZER. TOXIC BY INHALATION. MODERATELY TOXIC BY INGESTION. SLIGHTLY TOXIC BY DERMAL ABSORPTION. CHRONIC: MOUTH ULCERATION. POSSIBLE BRONCHIAL AND GASTROINTESTINAL DISTURBANCES.

Carcinogenicity - NTP: NO Carcinogenicity - IARC: NO Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE OF THE INGREDIENTS IN THIS PRODUCT IS

LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.

Signs/Symptoms Of Overexp: EYES: PAIN, LACRIMATION, BLURRED VISION,

INFLAMMATION. POSSIBLE LOSS OF VISION. SKIN: SEVERE BURNS, WHITE WRINKLED SKIN, BLISTERS, DERMATITIS. INHALATION: HARSH COUGH, CHOKING, WHEEZING, CHEST PAINS, PULMONARY EDEMA WHICH MAY BE FATAL. INGESTION: SEVERE BURNS

MOUTH, ESOPHAGUS, STOMACH WITH PAIN, VOMITING, DIARRHEA.

Med Cond Aggravated By Exp: INDIVIDUALS WITH A HISTORY OF EYES, SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE. Emergency/First Aid Proc: EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEE DOCTOR IMMEDIATELY. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH WITH SOAP AND WATER. COVER WITH DRY DRESSING. BANDAGE. SEE DOCTOR IMMEDIATELY. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR

IF NEEDED. SEE DOCTOR IMMEDIATELY. INGESTION: DRINK LARGE AMOUNTS OF WATER OR MILK. DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: KEEP COMBUSTIBLES (WOOD,PAPER,OIL,ETC.) AWAY FROM SPILL.REMOVE PERSONNEL.ELIMINATE IGNITION SOURCES.VENTILATE AREA.WEAR

PROTECTIVE CLOTHING AND SCBA.ABSORB IN INERT CEMENT POWDER OR FLY ASH AND PLACE IN APPROPIATE DISPOSAL CONTAINER AND COVER.

Neutralizing Agent: CAUSTIC SODA

Waste Disposal Method: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.EPA CODE IS D001(IGNITABLE).

Precautions-Handling/Storing: STORE IN COOL, DRY, WELL VENTILATED AREA.

PROTECT FROM PHYSICAL DAMAGE, HEAT, IGNITION SOURCES AND INCOMPATIBLE MATERIALS. KEEP CONTAINERS CLOSED.

Other Precautions: GROUND CONTAINERS WHEN TRANSFERRING LIQUID.OUTSIDE STORAGE IS PREFERRED; AVOID PITS OR DEPRESSIONS. INSIDE STORAGE SHOULD BE IN A STANDARD FLAMMABLE LIQUID STORAGE CABINET IAW NFPA 49.

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#### Control Measures

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Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NOISH/

MSHA APPROVED RESPIRATOR FOR ACID GAS, DEPENDING ON THE AIRBORN CONCENTRATION.

Ventilation: LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE LEVELS BELOW PEL. USE EXPLOSION PROOF EQUIPMENT.

Protective Gloves: PVC GLOVES.

Eve Protection: SAFETY GOGGLES AND FACESHIELD.

Other Protective Equipment: PROTECTIVE CLOTHING, AS NEEDED PROVIDE A LOCAL

EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices: WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK

Suppl. Safety & Health Data: NONE.

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# **Transportation Data**

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DOT PSN Code: ABB

DOT Proper Shipping Name: ACETIC

ANHYDRIDE DOT Class: 8

DOT ID Number: UN1715 DOT Pack Group: II

DOT Label: CORROSIVE, FLAMMABLE

LIQUID \*

IMO PSN Code: ACP

IMO Proper Shipping Name: ACETIC

**ANHYDRIDE** 

IMO Regulations Page Number: 8101

IMO UN Number: 1715 IMO UN Class: 8

IMO Subsidiary Risk Label: FLAMMABLE

LIQUID

IATA PSN Code: ABX IATA UN ID Number: 1715

IATA Proper Shipping Name: ACETIC

ANHYDRIDE IATA UN Class: 8

IATA Subsidiary Risk Class: 3

IATA Label: CORROSIVE & FLAMMABLE

LIQUID

AFI PSN Code: ABX

AFI Prop. Shipping Name: ACETIC

ANHYDRIDE

AFI Class: 8

AFI ID Number: UN1715

AFI Pack Group: II AFI Label: CORROSIVE AFI Special Prov: A3,A6,A7,A10

AFI Basic Pac Ref: 12-5 MMAC Code: NR

Additional Trans Data: RQ FOR ACETIC

ANHYDRIDE IS 5000 LBS.

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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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Label Required: YES

Technical Review Date: 19DEC94 MFR Label Number: UNKNOWN

Label Status: F

Common Name: ACETIC ANHYDRIDE

Signal Word: DANGER!

Acute Health Hazard-Moderate: X

Contact Hazard-Severe: X Fire Hazard-Moderate: X Reactivity Hazard-Slight: X

Special Hazard Precautions: ACUTE: CORROSIVE. LACRIMATOR. SEVERE EYE BURNS. SKIN SENSITIZER. TOXIC BY INHALATION. MODERATELY TOXIC BY INGESTION. SLIGHTLY TOXIC BY DERMAL ABSORPTION. CHRONIC: MOUTH ULCERATION. POSSIBLE BRONCHIAL AND GASTROINTESTINAL DISTURBANCES. FIRST AID: EYES: FLUSH WITH REMOVE CONTAMINATED CLOTHING AND SHOES. WASH WITH SOAP AND WATER. COVER WITH DRY DRESSING. BANDAGE. SEE DOCTOR IMMEDIATELY. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR IMMEDIATELY. INGESTION: DRINK LARGE AMOUNTS OF WATER OR MILK. DO NOT INDUCE VOMITING. SEE DOCTOR IMMEDIATELY.

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.

-- Revised by Nishant, 8/23/99