



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

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: Acrylic acid
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

Physical & Chemical Characteristics

APPEARANCE AND ODOR: COLORLESS LIQUID WITH A RANCID, SWEET, ACRID ODOR (FP N).
BOILING POINT: 282F, 139C
MELTING POINT: 55.4F, 13.0C
VAPOR PRESSURE MM HG 70 F: 4.0 @ 20C
VAPOR DENSITY AIR 1: 2.5
SPECIFIC GRAVITY: 1.051
DECOMPOSITION TEMPERATURE: N/K

EVAPORATION RATE AND REF: N/K
SOLUBILITY IN WATER: SOLUBLE
PERCENT VOLATILES BY VOLUME: N/K
VISCOSITY:
PH: 2.63
RADIOACTIVITY:
FORM RADIOACTIVE MATL:
MAGNETISM MILLIGAUSS: N/P
CORROSION RATE IPY: N/K
AUTOIGNITION TEMPERATURE:

Fire and Explosion Hazard Data

FLASH POINT: 130F, 54C
FLASH POINT METHOD: CC
LOWER EXPLOSIVE LIMIT: 2%
UPPER EXPLOSIVE LIMIT: 13.7%
EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.
SPECIAL FIRE FIGHTING PROC: WEAR NIOSH/MSHA APPROVED SCBA AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. COMBUSTIBLE LIQUID.
UNUSUAL FIRE AND EXPL HAZRDS: EMITS TOXIC FUMES UNDER FIRE CONDITIONS. VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNIT & FLASH BACK. CNTNR EXPLD MAY OCCUR UNDER FIRE CONDITIONS.

Reactivity Data

STABILITY: YES

COND TO AVOID (STABILITY): STORE AWAY FROM HEAT AND DIRECT SUNLIGHT.

MATERIALS TO AVOID: STRONG OXIDIZING AGENTS, STRONG BASES. MAY UNDERGO AUTOPOLYMERIZATION.

HAZARDOUS DECOMP PRODUCTS: TOXIC FUMES OF: CO & CO₂.

HAZARDOUS POLY OCCUR: YES

CONDITIONS TO AVOID POLY: UNINHIBITED ACRYLIC ACID OR MATL THAT IS DEPLETED OF INHIBITOR CAN POLYMERIZE VIOLENTLY WHEN EXPOSED (SEE INGRED 2)

Health Hazard Data

LD50 LC50 MIXTURE: SEE SUPP DATA

ROUTE OF ENTRY INHALATION: YES

ROUTE OF ENTRY SKIN: YES

ROUTE OF ENTRY INGESTION: NO

HEALTH HAZ ACUTE AND CHRONIC: ACUTE: HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHAL MAY BE FATAL AS A RESULT OF SPASM, INFLAM AND EDEMA OF LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.

CARCINOGENICITY NTP: NO

CARCINOGENICITY IARC: NO

CARCINOGENICITY OSHA: NO

EXPLANATION CARCINOGENICITY: ACRYLIC ACID: IARC GROUP 3.

SIGNS SYMPTOMS OF OVEREXP: BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

MED COND AGGRAVATED BY EXP: NONE SPECIFIED BY MANUFACTURER.

EMERGENCY FIRST AID PROC: EYES & SKIN: IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS. INHAL: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL MD. INGEST: CALL MD IMMEDIATELY (FP N).

Precautions for Safe Handling and Use

STEPS IF MATL RELEASED SPILL: EVAC AREA. WEAR NIOSH/MSHA APPROVED SCBA, RUBBER BOOTS & HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CNTNRS FOR DISPOSAL. VENT AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

NEUTRALIZING AGENT: NONE SPECIFIED BY MANUFACTURER.

WASTE DISPOSAL METHOD: THIS COMBUSTIBLE MATERIAL MAY BE BURNED IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

PRECAUTIONS HANDLING STORING: DO NOT BREATHE VAPOR. KEEP TIGHTLY CLOSED. STENCH. KEEP AWAY FROM HEAT AND OPEN FLAME. STORE IN A COOL DRY PLACE.

OTHER PRECAUTIONS: DO NOT GET IN EYES, ON SKIN OR CLTHG. AVOID PRLNGD/RPTD EXPOS. TOXIC. CORROSIVE. DO NOT USE STEAM OR ELEC HEATING SYS SUCH AS COILS,

JACKETS, TAPES, MANTELS, LIGHTS, ETC TO THAW ANY SOLIDIFIED MONOMER. THE
APPLICATN OF CONC (SEE SUPP DATA)

Control Measures

RESPIRATORY PROTECTION: WEAR APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR.
VENTILATION: USE ONLY IN A CHEMICAL FUME HOOD.
PROTECTIVE GLOVES: CHEMICAL RESISTANT GLOVES.
EYE PROTECTION: CHEM WORK GOGGLES, FACESHLD OPTL (FP N).
OTHER PROTECTIVE EQUIPMENT: PROTECTIVE CLOTHING, SAFETY SHOWER AND EYE
BATH, FACESHIELD (8-INCH MINIMUM).
WORK HYGIENIC PRACTICES: WASH THOROUGHLY AFTER USE AND BEFORE EATING,
DRINKING, SMOKING OR USING SANITARY FACILITIES (FP N).
SUPPL SAFETY HEALTH DATA: LD50-LC50 MIX: LD50:(ORL,RAT) 33500 UG/KG, (IPR,RAT) 22
MG/KG, (UNR,RAT) 1250 MG/KG, (ORL,MUS) 2400 MG/KG, (SCU,MUS) 1590 MG/KG,
(UNR,MUS) 830 MG/KG, (SKN,RBT) 280 MG/KG, (UNR,RBT) 250 MG/KG. OTHER PREC: HEAT
WILL CAUSE POLYM & POSSIBLE RUPTURE OF THE CNTNR. DO NOT REFRIG OR FREEZE.
INHIBITED W/200 PPM MEHQ.

Transportation Data

| | |
|-----------------------------------|-----------------------------------|
| DOT PSN CODE: AFJ | IATA UN ID NUMBER: 2218 |
| DOT SYMBOL: | IATA PROPER SHIP NAME: ACRYLIC |
| DOT PROPER SHIPPING NAME: ACRYLIC | ACID, INHIBITED |
| ACID, INHIBITED | IATA UN CLASS: 8 |
| DOT CLASS: 8 | IATA SUBSID RISK CLASS: 3 |
| DOT ID NUMBER: UN2218 | IATA LABEL: CORROSIVE & FLAMMABLE |
| DOT PACK GROUP: II | LIQUID |
| DOT LABEL: CORROSIVE, FLAMMABLE | AFI PSN CODE: AJK |
| LIQUID | AFI SYMBOLS: |
| DOT DOD EXEMPTION NUMBER: | AFI PROP SHIPPING NAME: ACRYLIC |
| IMO PSN CODE: AHK | ACID, INHIBITED |
| IMO PROPER SHIPPING NAME: ACRYLIC | AFI CLASS: 8 |
| ACID, INHIBITED | AFI ID NUMBER: UN2218 |
| IMO REG PAGE NUMBER: 8102 | AFI PACK GROUP: II |
| IMO UN NUMBER: 2218 | AFI LABEL: 3 |
| IMO UN CLASS: 8 | AFI SPECIAL PROV: |
| IMO SUBSID RISK LABEL: FLAMMABLE | AFI BASIC PAC REF: 12-5 |
| LIQUID | MMAC CODE: |
| IATA PSN CODE: AJK | N O S SHIPPING NAME: |

ADDITIONAL TRANS DATA:

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

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|-----------------------------------|---------------------------------|
| MFR NUMBER: | ACUTE HEALTH HAZARD NONE: |
| LABEL STATUS: G | ACUTE HEALTH HAZARD SLIGHT: |
| COMMON NAME: ACRYLIC ACID 14723-0 | ACUTE HEALTH HAZARD MODERATE: X |
| CHRONIC HAZARD: NO | ACUTE HEALTH HAZARD SEVERE: |
| SIGNAL WORD: DANGER! | CONTACT HAZARD NONE: |

CONTACT HAZARD SLIGHT:
CONTACT HAZARD MODERATE: X
CONTACT HAZARD SEVERE:
FIRE HAZARD NONE:
FIRE HAZARD SLIGHT:
FIRE HAZARD MODERATE: X
FIRE HAZARD SEVERE:
REACTIVITY HAZARD NONE:
REACTIVITY HAZARD SLIGHT:
REACTIVITY HAZARD MODERATE:
REACTIVITY HAZARD SEVERE: X
SPECIAL HAZARD PRECAUTIONS:
ACUTE: MAY BE FATAL IF INHALED. DO
NOT BREATHE VAPOR. KEEP CONTAINER

CLOSED. USE WITH ADEQUATE
VENTILATION. HARMFUL IF
SWALLOWED, INHALED, OR ABSORBED
THROUGH SKIN. AVOID CONTACT WITH
EYES, SKIN & CLOTHING. WASH
THOROUGHLY AFTER HANDLING.
CAUSES MUCOUS MEMBRANE, UPPER
RESPIRATORY TRACT, EYE & SKIN
IRRITATION. COMBUSTIBLE LIQUID &
VAPOR. KEEP AWAY FROM HEAT &
FLAME.
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.