



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

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# MATERIAL SAFETY DATA SHEETS

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Part Number/Trade Name: Acrylic acid

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General Information

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PHARMCO-AAPER

58 Vale Road  
Brookfield, CT 06804  
Phone (203) 740-3471  
Fax (203) 740-3481

1101 Isaac Shelby Drive  
Shelbyville, KY 40065  
Phone (502) 633-0650  
Fax (502) 633-0685

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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:

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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 EXPL MAY OCCUR UNDER FIRE CONDITIONS.

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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.

MSDS 074, Rev. 2.3, 03/08, SJK

Acrylic Acid/Page 1 of 4

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)

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#### 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).

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#### 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)

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#### 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.

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Transportation Data

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

ADDITIONAL TRANS DATA:  
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Disposal Data

Refer to applicable regional, state and federal codes.  
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Label Data

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

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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.