

# MATERIAL SAFETY DATA SHEET

EAGLE EP PICHER

NITRIC ACID (70%)  
CAS#: 7697-37-2

EMERGENCY TELEPHONE: 800-535-5053 INFOTRAC (24 HOURS)

DATE PREPARED: AUGUST 26, 1992

DATE REVISED: SEPTEMBER 15, 1993

## SECTION I

MANUFACTURER'S NAME.....EAGLE-PICHER INDUSTRIES, INC.  
ENVIRONMENTAL SCIENCE AND TECHNOLOGY  
ADDRESS.....200 B.J. TUNNELL BLVD.  
MIAMI, OKLAHOMA 74354  
EMERGENCY TELEPHONE NUMBER.....(800) 535-5053 INFOTRAC (24 HOURS)  
INFORMATION TELEPHONE NUMBER.....(918) 540-1507  
FAX NUMBER.....(918) 542-3223  
CHEMICAL NAME AND SYNONYMS.....NITRIC ACID, AZOTIC ACID  
TRADE NAME AND SYNONYMS.....AQUA FORTIS  
CAS#.....7697-37-2  
CHEMICAL FAMILY.....N/A  
FORMULA.....HNO3

## SECTION II - HAZARDOUS INGREDIENTS/TOXICITY DATA

COMPONENTS	CAS #	ACGIH TLV	OSHA PEL	% (OPTIONAL)
NITRIC ACID	7697-37-2	2 PPM TWA	2 PPM TWA AIR	

TOXICITY DATA: UNKNOWN.

## SECTION III - PHYSICAL DATA

BOILING PT.....122 C	SPECIFIC GRAVITY.....1.41
MELTING PT.....N/A	FORMULA WT.....63.01
VAPOR PRESSURE (MMHG).....62 @20C	% VOLATILE BY VOLUME.....N/A
VAPOR DENSITY (AIR=1).....1.0	EVAPORATION RATE.....N/A
SOLUBILITY IN WATER: COMPLETE.	APPEARANCE AND ODOR: COLORLESS LIQUID, SUFFOCATING ACRID ODOR.

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT.....N/A  
FLAMMABLE LIMITS.....N/A LEL: N/A UEL: N/A  
EXTINGUISHING MEDIA: NONCOMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE.  
SPECIAL FIRE FIGHTING PROCEDURES: NITRIC ACID INCREASES THE FLAMMABILITY OF COMBUSTIBLE, ORGANIC AND READILY OXIDIZABLE MATERIALS. FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS W/FULL FACE PIECE OPERATED IN THE POSITIVE PRESSURE MODE.

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UNUSUAL FIRE AND EXPLOSION HAZARDS: REACTS EXPLOSIVELY WITH COMBUSTIBLE ORGANIC OR READILY OXIDIZABLE MATERIALS SUCH AS: ALCOHOLS, METAL POWDER, OR HYDROGEN SULFIDE.

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## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV): ACGIH, OSHA TWA: 2 PPM.

EFFECTS OF OVEREXPOSURE: MAY BE FATAL IF INHALED, SWALLOWED, OR ABSORBED THROUGH SKIN. CAUSES BURNS. MATERIAL IS EXTREMELY DESTRUCTIVE TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY BE FATAL AS A RESULT OF SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA. SYMPTOMS INCLUDE: BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, AND VOMITING. STAINS ANIMAL TISSUE A BRIGHT YELLOW.

PRIMARY ROUTE(S) OF EXPOSURE: [X! DERMAL [X! INHALATION [X! INGESTION  
EMERGENCY FIRST AID PROCEDURES

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INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
EYE CONTACT: IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.  
SKIN CONTACT: IMMEDIATELY WASH SKIN WITH COPIOUS AMOUNTS OF WATER WHILE REMOVING CONTAMINATED CLOTHING IMMEDIATELY.  
INGESTION: WASH OUT MOUTH WITH WATER. CALL A PHYSICIAN.

#### SECTION VI - REACTIVITY DATA

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STABILITY: [X! STABLE [ ! UNSTABLE  
CONDITIONS TO AVOID: HEAT, LIGHT; MAY DISCOLOR ON EXPOSURE TO LIGHT.  
INCOMPATIBILITY: BASES, REDUCING AGENTS, ALCOHOLS, ALKALI METALS, BRASS, COPPER, COPPER ALLOYS, GALVANIZED IRON, ALUMINUM, CORRODES STEEL, ORGANIC MATERIALS, AMINES.  
HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC FUMES OF NITROGEN OXIDES.  
HAZARDOUS POLYMERIZATION: [ ! MAY OCCUR [X! WILL NOT OCCUR

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#### SECTION VII - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND CHEMICAL RESISTANT GLOVES. ABSORB ON SAND, VERMICULITE AND PLACE IN A CLOSED CONTAINER AND HOLD FOR DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.  
WASTE DISPOSAL METHOD: FOR SMALL QUANTITIES, CAUTIOUSLY ADD TO A LARGE STIRRED EXCESS OF WATER. ADJUST THE PH TO NEUTRAL, SEPARATE ANY INSOLUBLE SOLIDS OR LIQUIDS AND PACKAGE THEM FOR WASTE DISPOSAL. FLUSH THE AQUEOUS SOLUTIONS DOWN THE DRAIN WITH PLENTY OF WATER. THE HYDROLYSIS AND NEUTRALIZATION REACTIONS MAY GENERATE HEAT AND FUMES WHICH CAN BE CONTROLLED BY THE RATE OF ADDITION. FOLLOW ALL STATE, FEDERAL AND LOCAL REGULATIONS.

#### SECTION VIII - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: NIOSH/MSHA APPROVED RESPIRATOR.  
PROTECTIVE GLOVES: CHEMICAL RESISTANT. EYE PROTECTION: SAFETY GOGGLES.  
OTHER PROTECTIVE EQUIPMENT: PROTECTIVE CLOTHING. SAFETY SHOWER, EYE BATH, FACE SHIELD.

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VENTILATION:

LOCAL EXHAUST: N/A

MECHANICAL EXHAUST: REQUIRED.

SPECIAL: CHEMICAL FUME HOOD.

OTHER: N/A

SECTION IX - SPECIAL PRECAUTIONS  
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PRECAUTIONS: AVOID ALL CONTACT. CORROSIVE. POISON. STRONG OXIDIZER.

OTHER PRECAUTIONS: KEEP TIGHTLY CLOSED. STORE IN A COOL, DRY PLACE.