

MATERIAL SAFETY DATA SHEET

EAGLE EP PICHER

HYDROCHLORIC ACID,  
SOLUTION  
CAS#: 7647-01-0

EMERGENCY TELEPHONE: 800-535-5053 INFOTRAC (24 HOURS)  
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DATE PREPARED: AUGUST 25, 1992

DATE REVISED: SEPTEMBER 15, 1993

SECTION I  
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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.....HYDROCHLORIC ACID, SOLUTION; MURIATIC  
ACID  
TRADE NAME AND SYNONYMS.....HYDROGEN CHLORIDE, CHLOROHYDRIC ACID  
CAS#.....7647-01-0  
CHEMICAL FAMILY.....CHLORIDE  
FORMULA.....HCL

SECTION II - HAZARDOUS INGREDIENTS/TOXICITY DATA  
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COMPONENTS	CAS#	ACGIH TLV	OSHA PEL	% (OPTIONAL)
HYDROCHLORIC ACID	7647-01-0	5PPM CL	5PPM CL	

TOXICITY DATA: IHL-HMN LCLO: 1300PPM/30M, INL-HMN LCLO: 3000PPM/5M, IHL-RAT  
LC50: 3124PPM/1H, ORL-RAT LD50: 900MG/KG.

SECTION III - PHYSICAL DATA  
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BOILING PT.....53 C (127 F)	SPECIFIC GRAVITY.....1.18
MELTING PT.....N/A	FORMULA WT.....36.47
VAPOR PRESSURE (MMHG).....190 @ 25 C	% VOLATILE BY VOLUME.....UNKNOWN
VAPOR DENSITY (AIR=1).....@ 1.3	EVAPORATION RATE.....UNKNOWN
SOLUBILITY IN WATER: 100%, SLIGHT EVOLUTION OF HEAT.	APPEARANCE AND ODOR: COLORLESS, FUMING LIQUID.

SECTION IV - FIRE AND EXPLOSION DATA  
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FLASH POINT: N/A  
FLAMMABLE LIMITS: N/A LEL: N/A UEL: N/A  
EXTINGUISHING MEDIA: NON-COMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO  
SURROUNDING FIRE CONDITIONS.

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SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR PROPER PROTECTIVE  
EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE IN  
POSITIVE PRESSURE MODE. DO NOT GET WATER INSIDE CONTAINERS!  
UNUSUAL FIRE AND EXPLOSION HAZARDS: WILL PRODUCE TOXIC FUMES OF HYDROGEN  
CHLORIDE GAS IN CONTACT WITH WATER, AND HYDROGEN GAS UPON CONTACT WITH METAL.

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SECTION V - HEALTH HAZARD DATA

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THRESHOLD LIMIT VALUE (TLV): ACGIH, OSHA CEILING LIMIT: 5 PPM.  
HEALTH HAZARDS: MAY BE FATAL BY INHALATION, INGESTION OR SKIN ABSORPTION.  
HIGH CONCENTRATIONS MAY BE DESTRUCTIVE TO TISSUE OF MUCOUS MEMBRANES, UPPER  
RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY BE FATAL AS A RESULT OF  
INFLAMMATION, SPASM, AND EDEMA OF LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND  
PULMONARY EDEMA.  
EFFECTS OF OVEREXPOSURE: BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS,  
SHORTNESS OF BREATH, HEADACHE, NAUSEA, AND VOMITING.  
EMERGENCY FIRST AID PROCEDURES  
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INHALATION: REMOVE TO FRESH AIR. IF BREATHING, GIVING OXYGEN. IF NOT  
BREATHING, GIVE ARTIFICIAL RESPIRATION. CALL A PHYSICIAN.  
EYE CONTACT: IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST  
15 MINUTES.  
SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT  
LEAST 15 MINUTES WHILE REMOVING CLOTHING.  
INGESTION: CALL PHYSICIAN IMMEDIATELY. IF CONSCIOUS, GIVE WATER.

#### SECTION VI - REACTIVITY DATA

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STABILITY: [X] STABLE [ ] UNSTABLE CONDITIONS TO AVOID: HEAT, MOISTURE.  
INCOMPATIBILITY: BASES, AMINES, ALKALI METALS, COPPER, COPPER ALLOYS,  
ALUMINUM.  
HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN CHLORIDE GAS.  
HAZARDOUS POLYMERIZATION: [ ] MAY OCCUR [X] WILL NOT OCCUR

#### SECTION VII - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: EVACUATE AREA.  
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.  
COVER SPILL WITH DRY LIME, SAND, OR SODA ASH. PLACE IN COVERED CONTAINERS  
USING NON-SPARKING TOOLS. TRANSPORT OUTDOORS. VENTILATE AREA AND WASH SPILL  
SITE AFTER PICK-UP IS COMPLETE.

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WASTE DISPOSAL METHOD: FOR SMALL QUANTITIES, CAUTIOUSLY ADD TO A LARGE  
QUANTITY OF STIRRED EXCESS OF WATER AND ADJUST PH TO 7 (NEUTRAL). SEPARATE ANY  
INSOLUBLE SOLIDS AND PACKAGE FOR HAZARDOUS WASTE DISPOSAL. FLUSH AQUEOUS  
SOLUTION DOWN THE DRAIN WITH PLENTY OF WATER. HYDROLYSIS MAY GENERATE HEAT AND  
FUMES WHICH CAN BE CONTROLLED BY RATE OF ADDITION. FOLLOW ALL FEDERAL, STATE,  
AND LOCAL REGULATIONS.  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP TIGHTLY CLOSED, STORE IN  
A COOL, DRY PLACE. WEAR CHEMICAL RESISTANT GLOVES AND AVOID BREATHING VAPOR.  
DO NOT GET ON SKIN OR IN EYES.

#### SECTION VII - SPECIAL PRECAUTIONS

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RESPIRATORY PROTECTION: NIOSH/MSHA APPROVED RESPIRATOR.  
PROTECTIVE GLOVES: CHEMICAL RESISTANT. EYE PROTECTION: SAFETY GOGGLES/  
FACE SHIELD.  
OTHER PROTECTIVE EQUIPMENT: LAB COAT OR APRON.  
VENTILATION:  
LOCAL EXHAUST: ACCEPTABLE MECHANICAL EXHAUST: REQUIRED  
SPECIAL: CHEM. FUME HOOD.

PRECAUTIONS: POISON! CORROSIVE! AVOID ALL CONTACT. AVOID BREATHING VAPOR.

AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING.

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