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PHOENIX INDUSTRIES INC -- HYDROCHLORIC ACID, 30-40% -- 6810-00-753-4786

Product ID:HYDROCHLORIC ACID, 30-40%

MSDS Date:05/31/2000

FSC:6810

NIIN:00-753-4786

Status Code:A

MSDS Number: CKVSW === Responsible Party ===

Company Name: PHOENIX INDUSTRIES INC Address: 1519 CHAMBERLAYNE PARKWAY

City:RICHMOND

State:VA ZIP:23222 Country:US

Info Phone Num:804-264-5183

Emergen

cy Phone Num:(804) 264-5183 Chemtrec Ind/Phone:(800)424-9300

CAGE:0YED2

=== Contractor Identification ===

Company Name: PHOENIX INDUSTRIES INC Address: 1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA ZIP:23222 Country:US

Phone:804-264-5183/FAX: 264-5535 Contract Num:SP0450-01-M-D008

CAGE:0YED2

======= Composition/Information on Ingredients ========

Ingred Name: HYDROGEN CHLORIDE

CAS:7647-01-0

RTECS #:MW4025000 Minumum % Wt:30. Maxumum % Wt:40.

OSHA PEL:C7 MG/M3;C5 PPM

ACGIH STEL

:C7.5 MG/M3;C5 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:60. Maxumum % Wt:67.

========== Hazards Identification ================

LD50 LC50 Mixture:ORAL RABBIT LD50= 900 MG/KG (CONC. HCL)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO

Health Hazards Acute and Chronic:LIQUID AND VAPORS ARE CORROSIVE TO EYES, SKIN, RESPIRATORY & DIGESTIVE TRACT! SWALLOWI NG MAY BE FATAL.

CONCENTRATED SOLUTIONS CAUSE DEEP ULCERS & DISCOLOR SKIN. LIQUID CONTACT TO EYES MAY CAUSE SEVERE BURNS & PERMANENT EYE DAMAGE. CHRONIC: LONG TERM EXPOSURE TO CONCENTRATED VAPORS MAY CAUSE ERROSION OF TEETH. LONG TERM EXPOSURE SELDOM OCCURS DUE TO THE CORROSIVE PROPERTIES OF THE ACID.

Explanation of Carcinogenicity:NTP AND IARC: NOT A CARCINOGEN.

Effects of Overexposure:INHALATION: INHALATION OF VAPORS CAN CAUSE COUGHING, CHOKING, INFLAMMATION OF THE NO

SE, THROAT & UPPER

RESPIRATORY TRACT & IN SEVERE CASES, PULMONARY EDEMA, CIRCULATORY FAILURE, & DEATH. INGESTION: SW ALLOWING HYDROCHLORIC ACID CAN CAUSE IMMEDIATE PAIN & BURNS OF THE THROAT, ESOPHAGUS & GASTROINTESTINAL TRACT. MAY CAUSE NAUSEA, VOMITING & DIARRHEA. SWALLOWING MAY BE FATAL. SKIN: CAN CAUSE REDNESS, PAIN & SEVERE SKIN BURNS. CONCENTRATED SOLUTIONS CAUSE DEEP ULCERS & DISCOLOR SKIN. EYEVAPORS ARE IRRITATING & MAY CAUSE DAMAGE TO THE EYES. CONTACT

MAY CAUSE SEVERE BURNS & PERMANENT EYE DAMAGE.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL HELP. INGESTION: DO NOT INDUCE VOMITING! GIVE LARGE QUANTITIES OF WA T

ER OR MILK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL HELP. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINS WHILE REMOVING CONTAMINATED CLOTHING & SHOES. W ASH CLOTHING & SHOES BEFORE REUSE. GET MEDICAL HELP. EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINS., LIFTING EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION.

============= Fire Fighting Measures ===============

Extinguishing Media:IF INVOLVED IN A FIRE, USE WATER SPRAY. NEUTRALIZE WITH SODA ASH OR SLAKED LIME.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING & NIOSH-APPROVED SCBA WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER PRESSURE MODE. STRUCTURAL FIREFIGHTER'S PROTECTIVE CLOTHING IS INEFFECTIVE FOR FIRE INV OLVING HYDROCHLORIC ACID. STAY AWAY FROM ENDS OF TANKS. COOL TANKS WITH WATER SPRAY UNTIL AFTER FIRE IS OUT.

Unusual Fire/Explosion Hazard:EXTREME HEAT OR CONTACT WITH METALS CAN RELEASE

FLAMMABLE HYDROGEN GAS.

	Accidental Release Measures	
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Spill Release Procedures: VENTILATE AREA, WEAR PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNPROTECTED PERSONNEL FROM ENTERING. CONTAIN & RECOVER LIQUID WHEN POSSIBLE THEN ABSORB WITH AN INERT MATERIAL (E.G., VER MICULITE, DRY SAND, EARTH), AND PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT FLUSH TO SEWER! US REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS & RELEASES IN EXC ESS

OF RQ. US COAST GUARD # 800-424-8802.

Neutralizing Agent: NEUTRALIZE WITH ALKALINE MATERIAL (SODA ASH, LIME).

============= Handling and Storage ==========================

Handling and Storage Precautions:STORE IN A COOL, DRY, VENTILATED STORAGE AREA WITH ACID RESISTANT FLOORS & GOOD VENTILATION. PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF DIRECT SUNLIGHT & AWAY FROM HEAT, WATER, INCOMPATIBLE MATERIALS. DO NOT WASH OUT CONTAINER & USE IT FOR OTHER PURPOSES.

Other Pr

ecautions:WHEN DILUTING, THE ACID SHOULD ALWAYS BE ADDE	D SLOWLY
TO WATER & IN SMALL AMOUNTS. NEVER USE HOT WATER &	NEVER ADD WATER
TO THE ACID. WATER ADDED TO ACID CAN CAUSE UNCONTRO	OLLED BOILING &
SPLASHING. WH EN OPENING METAL CONTAINERS, USE NON-	SPARKING TOOLS
BECAUSE OF POSSIBILITY OF HYDROGEN GAS BEING PRE SE	NT.

====== Exposure Controls/Personal Protection ========

Respiratory Protection: PERSONAL RESPIRATORS (NIOSH APPROVED): IF THE EXPOSURE LIMIT IS EXCEE

DED, A FULL FACEPIECE RESPIRATOR WITH AN

ACID GAS CARTRIDGE CAN BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE PERMIT TED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LESSER. IN EMERGENCIES, USE A POSITVE PRESSURE AIR-SUPPLIED RESPIRATOR OR SCBA.

Ventilation: A SYSTEM OF LOCAL &/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURE BELOW THE ARIBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION PREFERED.

Protective Gloves:USE

RUBBER OR NEOPRENE GLOVES.

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE

Other Protective Equipment: USE IMPERVIOUS BOOTS, APRON, COVERALLS, AS NEEDED IN AREAS OF UNUSUAL EXPOSURE TO PREVENT SKIN CONTACT. HAVE EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

Work Hygienic Practices: AVOID CONTACT AND BREATHING VAPORS.

Supplemental Safety and Health

WARNING! AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT

ATMOSPHERES.

======= Pl	hysical/Chemical Properties	=======================================
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HCC:C1

Boiling Pt:=52.8C, 127.F

B.P. Text:AZEOTROPE BOILS @228F

Melt/Freeze Pt:=-74.C, -101.2F Vapor Pres:190@25C(77F)

pH:0.1(1.0N)

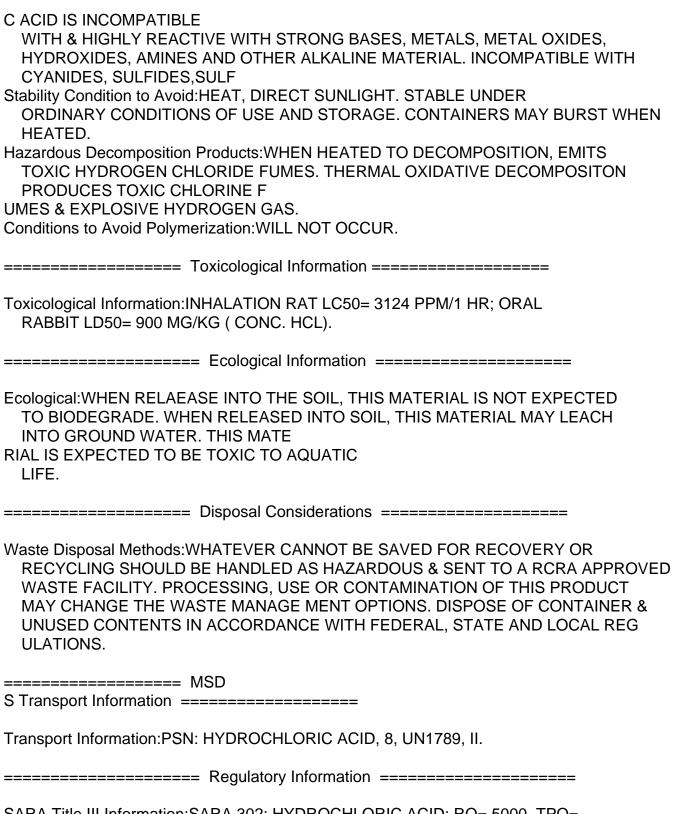
Solubility in Water:INFINITE IN WATER

Appearance and Odor:COLORLESS, FUMING LIQUID; PUNGENT ODOR OF HYDROGEN CHLORIDE.

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

A STRONG MINERAL ACID, CONCENTRATED HYDROCHLORI



SARA Title III Information:SARA 302: HYDROCHLORIC ACID: RQ= 5000, TPQ= 500, LISTED= YES,

Federal Regulatory Information:LISTED ON THE TSCA INVENTORY.

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