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PHOENIX INDUSTRIES INC -- HYDROCHLORIC ACID, 30-40% -- 6810-00-823-8010

Product ID:HYDROCHLORIC ACID, 30-40%

MSDS Date:05/31/2000

FSC:6810

NIIN:00-823-8010

Status Code:A

MSDS Number: CLBFB === 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:(800)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-D923

CAGE:0YED2

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

Ingred Name: HYDROGEN CHLORIDE

CAS:7647-01-0

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

Other REC Limits: 5 PPM CEILING

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:70.

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

LD50 LC50 Mixture:LD50 ORAL RABBIT = 900 MG/KG CONC. HCL
Reports of Carcinogenicity:NTP:NO IARC:NO
Health Hazards Acute and Chronic:INHALATION: CORROSIVE! VAPORS CAN
CAUSE COUGHING, CHOKING, INFLAMMATION OF THE NOSE, THROAT & UPPER
RESPIRATOR

Y TRACT & IN SEVERE CASES, PULMONARY EDEMA, CIRCULATORY
FAILURE & DEATH. INGESTION: CORROS IVE! SWALLOWING CAN CAUSE
IMMEDIATE PAIN & BURNS OF THE THROAT, ESOPHAGUS & GI TRACT. MAY
CAUSE NAUSEA, VOMITING & DIARRHEA. SWALLOWING MAY BE FATAL. SKIN:
CORROSIVE! CAN CAUSE REDNESS, PAIN & SEVERE SKIN BURNS. CONC
SOLUTIONS CAUSE DEEP ULCERS & DISCOLOR SKIN. EYE: CORROSIVE! VAPORS
ARE IRRITATING & MAY CAUSE DAMAGE TO THE EYES. CONTACT MAY CAUSE
SEVERE BURNS & PERMANENT EYE D

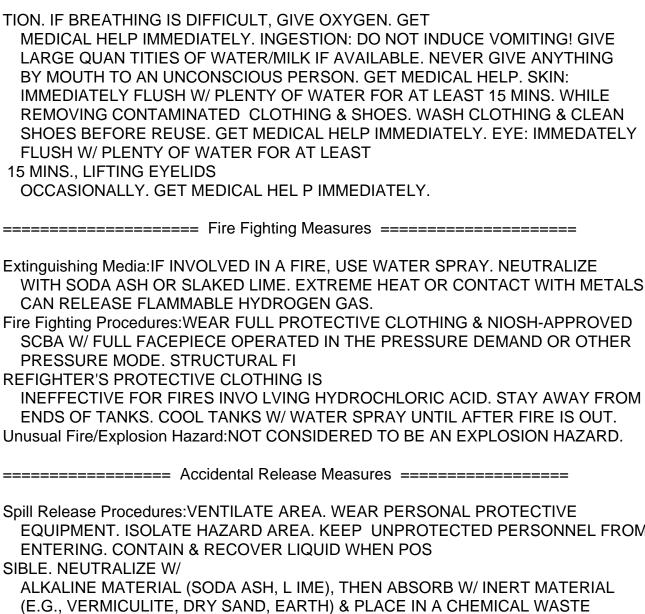
AMAGE. CHRONIC: EROSI ON OF TEETH.

Effects of Overexposure:INHALATION: CORROSIVE! VAPORS CAN CAUSE COUGHING, CHOKING, INFLAMMATION OF THE NOSE, THROAT & UPPER RESPIRATORY TRACT & IN SEVERE CASES, PULMONARY EDEMA, CIRCULATORY FAILURE & DEATH. INGESTION: CORROS IVE! SWALLOWING CAN BE FATAL & CAUSE IMMEDIATE PAIN & BURNS OF THE THROAT, ESOPHAGUS & GASTROINTESTINAL TRACT. MAY CAUSE NAUSEA, VOMITING & DIARRHEA. SKIN: CORROSIVE! CAN CAUSE REDNESS, PAIN & SEVERE SKIN BURNS. CONC

SOLUTIONS CAUSE DEEP ULCERS & DISCOLOR SKIN. EYE: CORROSIVE! VAPORS 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 RESPIRA



EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNPROTECTED PERSONNEL FROM

CONTAINER. DO NOT USE COMBUSTIBLE MATERIALS, SUCH AS SAW. DO NOT FLUSH TO SEWER.

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

AND GOOD VENTILATION.

PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF DIRECT SUNLIGHT & AWAY FROM HEAT, WATER, INCOMPATIBLE MATERIALS. DO NOT WASH OUT CONTAINER AND USE IT FOR OTHER PURPOSES.

Other Precautions:WHEN DILUTING, THE ACID SHOULD ALWAYS BE ADDED SLOWLY TO WATER & IN SMALL AMOUNTS. NEVER USE HOT WATER & NEVER ADD WATER TO THE ACID. WATER ADDED TO ACID CAN CAUSE UNCONTROLLED BOILING & SPLASHING. WH EN OPENING METAL CONTAINERS, USE NON-SPARKING TOOLS BECAUSE OF POS

SIBILITY OF HYDROGEN GAS BEING PRE SENT.

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

Respiratory Protection:(NIOSH APPROVED): IF THE EXPOSURE LIMIT IS EXCEEDED, A FULL FACEPIECE RESPIRATOR W/ AN ACID GAS CARTRIDGE CAN BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE PERMITTED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LESSER.*** SEE SUPPLEMENTAL DATA***
Ventilation:LOCAL &/OR GENERAL EXHAUST IS RECOMMENDED TO K EEP EMPLOYEE

EXPOSURE BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS PREFERRED.

Protective Gloves: USE RUBBER OR NEOPRENE GLOVES

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

Other Protective Equipment:USE ADDITIONAL PROTECTION INCLUDING 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 Hy

gienic Practices:USE IN A WELL VENTILATED AREA. AVOID CONTACT.

Supplemental Safety and Health

IN EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A POSITIVE-PRESSURE, AIR SUPPLIED RESPIRATOR. WARNING: AIR PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATM OSPHERES.

======== Physical/Chemical Properties ============

HCC:C1
Boiling Pt:=53.C, 127.4F
B.P. Text:AZETROPE (20.2%) BOILS
Melt/Freeze Pt:=-74.C, -101.2F
Vapor Pres:190 @

Spec Gravity:1.16
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 HYDROCHLORIC ACID IS INCOMPATIBLE W/ & HIGHLY REACTIVE W/ STRONG BASES, METALS, METAL OXIDES, HYDROXIDES, AMINES & OTHER ALKALINE MATERIALS. INCOMPATIBLE WITH CYANIDES, SULFIDE S, SULFITES
Stability Condition to Avoid:HEAT, DIRECT SUNLIGHT. CONTAINERS MAY
BURST WHEN HEATED. Hazardous Decomposition Products:WHEN HEATED TO DECOMPOSITION, EMITS TOXIC HCL FUMES & WILL REACT WITH WATER OR STEAM TO PRODUCE HEAT & TOXIC & CORROSIVE FUMES. THERMAL OXIDATIVE DECOMPOSITION PRODUCES TOXIC CHLORINE FUMES & H2 GAS. Conditions to Avoid Polymerization:WILL NOT OCCUR.
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Toxicological Information:INHALT ION RAT LC50= 3124 PPM/1 H; ORAL RAT LD50 = 900 MG/KG (CONC. HYDROCHLORIC ACID); INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR: NOT LISTED AS A KNOWN OR AN ANTICIPATED CARCINOGEN B Y NTP AND IARC.
======== Ecological Information ==========
Ecological:ENVIRONMENTAL FATE: WHEN RELAEASE INTO THE SOIL, THIS MATERIAL IS NOT EXPECTED TO BIODEGRADE, AND THIS MATERIAL MAY LEACH INTO GROUNDWATER. ENVIRONMENTAL TOXICITY: THIS MATERIAL IS EXPECT ED
TO BE TOXI C TO AQUATIC LIFE.
======= Disposal Considerations ==========
Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY/RECYCLING SHOULD BE HANDLED AS HAZARDOUS & SENT TO A RCRA APPROVED WASTE

Waste Disposal Methods:WHATEVER CANNOT BE SAVED FOR RECOVERY/RECYCLING SHOULD BE HANDLED AS HAZARDOUS & SENT TO A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAMINATION MAY CHANGE THE WASTE MGMT OPTIONS. STATE & LOC AL DISPOSAL REGULATIONS DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE OF CONTAINER & UNUSED CONT ENTS I/A/W FEDERAL, STATE & LOCAL REGS.

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====== MSDS Transport Information =========
Transport Information:PSN: HYDROCHLORIC ACID, 8, UN1789, II.
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SARA Title III Information:SARA 302: HYDROGEN CHLORIDE: RQ = 5000 LBS TPQ = 500 LBS; LISTED = YES.
========== Other Information =============

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