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E.I. DUPONT DE NEMOURS & CO, INC. -- HYDROCHLORIC ACID SOLUTIONS -- 6810-00-823-8010

Product ID: HYDROCHLORIC ACID SOLUTIONS MSDS Date:01/08/1997 FSC:6810 NIIN:00-823-8010 MSDS Number: CJJQF === Responsible Party === Company Name: E.I. DUPONT DE NEMOURS & CO, INC. Address:1007 MARKET STREET Box:1635 **City:WILMINGTON** State:DE ZIP:19899 Country:US Info Phone Num:800-441-7515 Emergency Phone Num:800-441-3637 - MEDICAL Resp. Party Other MSDS Num.:DU000030 Chemtrec Ind/Phone:(800)424-9300 CAGE:19898 === Contractor Identification === Company Name: CHEMSOLV, INC. Address:1140 INDUSTRY AVE. SE Box:City:ROANOKE State:VA ZIP:24013 Country:US Phone:540-427-4000 CAGE:001W1 Company Name: E.I. DUPONT DE NEMOURS & CO Address:1007 MARKET STREET Box:City:WILMINGTON State:DE ZIP:19898 Country:US Phone:800-441-7515;800-441-9442 CAGE:18873 Company Name: E.I. DUPONT DE NEMOURS &

CO., INC. Box:1635 CAGE:19898 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:SP0450-00-M-SA57 CAGE:0YED2 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:SP0450-98-M-C727 CAGE:0YED2

Ingred Name:HY DROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III) CAS:7647-01-0 RTECS #:MW4025000 Minumum % Wt:31.5 Maxumum % Wt:37.1 OSHA PEL:C 5 PPM ACGIH TLV:C 5 PPM; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:WATER, CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 68.5%

LD50 LC50 Mixture:LD50 ORAL RABBIT IS 900MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS: SKIN, EYES, LUNGS. THIS COMPOUND IS CORROSIVE AND CAUSES BURNS OF THE EYES AND SKIN; CAUSES NOSE AND THROAT IRRITATION. HIGH OR PROLONGED INHALATION EXPOSURE MAY CAUSE PULMONARY EDEMA (FLUID ACCUMULATION IN LUNG). INGESTION MAY CAUSE SEVERE ACID BURNS TO THE MOUTH, THROAT, ESOPHAGUS AND STOMACH. GROSS OVEREXPOSURE MAY CAUSE DEATH.

Explanation of Carcinogenicity:HYDROCHLORIC ACID IS CLASSIFIED IARC-3 (INSUFFICIENT EVIDENCE-H

UMAN). TESTS IN ANIMALS DEMONSTRATE NO CARCINOGENIC ACTIVITY.

Effects of Overexposure:EYES-EYE CORROSION WITH CORNEAL OR CONJUNCTIVAL ULCERATION. INHALATION-UPPER RESPIRATORY PASSAGES WITH COUGHING AND DISCOMFORT. HIGHER INHALATION EXPOSURES MAY LEAD TO CORROSION OF MUCOSAL SURFACES WI TH TEMPORARY LUNG IRRITATION WITH COUGH,DIFFICULTY IN BREATHING, SHORTNESS OF BREATH, DENTAL EROSION. INGESTION-SEVERE ACID BURNS OF MOUTH, THROAT, CHEST AND ABDOMEN; VOMITING AND DIAR

RHEA OF DARK BL OOD MAY OCCUR WITH PENETRATION OF THE ESOPHAGUS OR STOMACH.

Medical Cond Aggravated by Exposure:INDIVIDULS WITH PREEXISTING DISEASES OF THE LUNGS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:INHALED-IMMEDIATELY REMOVE VICTIM TO UNCONTAMINATED ATMOSPHERE. CALL A PHYSICIAN. GIVE OXYGEN AS SOON AS POSSIBLE (6 LITERS/MINUTE). IF NOT BREATHING, GIVE ARTIFIC

IAL RESPIRATION.

KEEP VICTIM WARM & AT REST. SKIN-IMMEDIATELY SHOWER & COMPLETELY REMOVE ALL CONTAMINATED CLOTHES/SHOES WHILE IN SHOWER. FLUSH IN SHOWER FOR AT LEAST 5 MINUTES. CALL FOR MEDICAL HELP. EYES-IMMEDIATELY FLUSH WITH WATER, H OLD LIDS APART. CALL PHYSICIAN IMMEDIATELY. TRANSFER TO MEDICAL FACILITY IMMEDIATELY. INGESTED-DO NOT INDUCE VOMITING! GIVE LARGE QUANTITIES OF WATER. CALL A PHYSICIAN IMMEDIATELY & TRANSFER PROMPTLY TO MEDICAL FACILITY.

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Flash Point:NONE

Extinguishing Media:WILL NOT BURN. USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL.

Fire Fighting Procedures: KEEP PERSONNEL REMOVED & UPWIND OF FIRE, COOL TANK/CONTAINER WITH WATER SPRAY. RUNOFF FROM FIRE CONTROL MAY BE A POLLUTION HAZARD. WEAR FULL PROTECTIVE CLOTHING WITH HOOD AND BREATHING AIR SUPPLY. NE UTRALIZE WITH LIME, SODA ASH, ETC TO PREVENT METAL CORROSION & FOAMATION OF HYDROGEN. Unusual F ire/Explosion Hazard:MAY GENERATE FLAMMABLE, POTENTIALLY EXPLOSIVE HYDROGEN GAS ON CONTACT WITH MOST METALS. EXPLOSIVE CONCENTRATIONS OF HYDROGEN MAY ACCUMULATE INSIDE METAL EQUIPMENT.HYDROCHLORIC ACID FUMES MAY BE RELEAS ED FROM HEATING UNDER FIRE CONDITIONS. FOLLOW APPROPRIATE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.

Spill Release Procedures: USE APPROPRIATE PERSONAL PROTECTIVE GEAR DURING CL

EAN-UP. EVACUATE PERSONNEL. KEEP UPWIND OF LEAK. EVACUATE UNTIL GAS HAS DISPERSED. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL PROTECTIVE GEAR. DIKE SPILL. PREVENT FROM ENTERINGSEWERS, WATERWAYS OR LOW AREAS. FLUSH AWAY TRACES WITH WATER. NEUTRALIZE SPILL WITH LIME, SODA ASH. DO NOT FLUSH TO SEWER BEFORE NEUTRALIZING.

Neutralizing Agent:SODA ASH, LIME.

Handling and Storage Precautions:STORE IN C

OOL PLACE. KEEP CONTAINER

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CLOSED. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. DO NOT STORE OR MIX WITH CYANIDES, SULFIDES OR FORMALDEHYDE. PROTECT CONTAINER FROM DAMAGE.

Other Precautions:DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID BREATHING VAPORS OR MIST. WASH THOROUGHTLY AFTER HANDLING. NIOSH HAS ESTABLISHED AN IDLH FOR HYDROCHLORIC ACID OF 50 PPM. THIS CONCENTRATION IS ONLY I NTENDED FOR USE IN RESPIRATOR SELECTIONFOR THE HEALTHY WORKER POPULATION.

Respiratory Protection: IF EXPOSURE LIMITS MAY BE EXCEEDED, WEAR NIOSH/MSHA APPROVED RESPIRATOR PROTECTION.

Ventilation: USE SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS.

Protective Gloves: NEOPRENE RUBBER GAUNTLET.

Eye Protection: CHEM SPLASH GOGGLES, FACE SHIELD.

Other Protective Equipment:WEAR AS APPROPRIATE: NEOPRENE BOOTS PLUS NEOPRENE OR VINYL JACKET; FULL ACID SUIT OF NEOPRENE, VINYL OR OTH ER ACID-RESISTENT MATERIAL INCLUDES HOOD, GLOVES, BOOTS & SCBA. EYE WASH & FULL SHOWER. Work Hygienic Practices: WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA. Supplemental Safety and Health SPILL/EMERGENCY NOTE: PROTECTIVE CLOTHING & EQUIPMENT SHOULD NOT BE WORN OUTSIDE OF THE OPERATING AREA. WASH PROTECTIVE CLOTHING AND EQUIPMENT UNDER A SAFETY SHOWER AFTER EXPOSURE OR SUSPECTED EXPOSUR E TO HYDROCHL ORIC ACID. HCC:C1 Boiling Pt:=84.C, 183.2F Melt/Freeze Pt:=-52.5C, -62.5F Vapor Pres:36MM HG@25C Vapor Density:1.27 Spec Gravity:1.16-1.84 pH: 1 (BUTYL ACETATE = 1) Solubility in Water:100 WT % Appearance and Odor: COLORLESS TO LIGHT YELLOW LIQUID WITH A PUNGENT, ACRID ODOR. Percent Volatiles by Volume:100 Stability Indicator/Materials to Avoid:YES MOST METALS, OXIDIZING AGENTS, CYANIDES, SULFIDES, FORMALDEHYDE. Stability Condition to Avoid: HEAT CAN CAUSE EVOLUTION OF GASEOUS HYDROGEN CHLORIDE. Hazardous Decomposition Products: HEAT CAN CAUSE EVOLUTION OF GASEOUS HYDROGEN CHLORIDE. Conditions to Avoid Polymerization: POLYMERIZATION WILL NOT OCCUR. 

Toxicological Information: ANIMAL DATA: INHALATION - 1 HR- LC50 (RATS): 2,810 PPM. ORAL LD50 (RABBITS): 900 MG/KG. THE CO

MPOUND IS

CORROSIVE TO EYES & SKIN. TOXIC EFFECTS INCLUDE: RESPIRATORY IRRITATION, CORNEAL OPACITY & CORRO SION OF MUCOSAL SURFACES. EFFECTS FROMPROLONGED & REPEATED EXPOSURE: CHANGES TO NASAL CAVITY WITH NECROSIA, REDUCED WEIGHT GAIN, DECREASED LIVER WEIGHT. EFFECTS FROM INGESTION: GASTRIC MUCOSAL DAMAGE, DECREASED WEIGHT GAIN, MORTALITIES, NON-SPECIFIC CHANGE, DECREASE IN RELATIVE & ABSOLUTE SPLEEN. TESTS HAVE NOT BEEN PERFORMED FOR MUTAGENIC, DEVELOPMENTAL OR

REPRODUCTIVE EFFECTS.

Ecological: ECOTOXICOLOGICAL DATA: AQUATIC TOXICITY: 96 HOUR LC50 (MOSQUITO FISH): 282 MG/L. SLIGHTLY TOXIC.

Waste Disposal Methods:THIS MATERIAL MAY BE A RCRA HAZARDOUS WASTE. TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. DO NOT FLUSH TO SURFA

CE WATER O R SANITARY SEWER SYSTEMS. IF APPROVED, RECOVER OR DRAIN NEUTRALIZED WASHING TO A WASTE TREATMENT PLA NT OR TRANSFER TO LICENSED DISPOSAL CONTRACTOR.

Transport Information:DOT/IMO: PROPER SHIPPING NAME: HYDROCHLORIC ACID, HAZARD CLASS: 8; UN NO.: 1789; DOT/IMO LABEL: CORROSIVE; PACKING GROUP: II.

SARA Title III Information:TITLE I

II SECTIONS 311/312: ACUTE-YES;

CHRONIC-YES; FIRE-NO; REACTIVITY-NO; PRESSURE-NO. SARA EXTREMELY HAZARDOUS SUBSTANCE-ONLY HYDROGEN CHLORIDE GAS; SARA TOXIC CHEMICAL-YES.

Federal Regulatory Information:SUPERFUND REPORTABLE DISCHARGE-5000 LB. TSCA INVENTORY STATUS: REPORTED/INCLUDED. CERCLA HAZARDOUS SUBSTANCE-YES.

State Regulatory Information: NONE SPECIFIED BY MANUFACTURER.

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formation by the compiling agencies):

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