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Product ID:HYDROFLUORIC ACID, 26-52% MSDS Date:02/17/2000 FSC:6810 NIIN:00-237-2920 Status Code:A MSDS Number: CLMGQ === Responsible Party === Company Name: SPECTRUM CHEMICAL MFG. CORP. Address:14422 SOUTH SAN PEDRO STREET City:GARDENA State:CA ZIP:90248-2027 Country:US Info Phone Num:3 10-516-8000 Emergency Phone Num: (800) 424-9300 Resp. Party Other MSDS Num.:H3300 Preparer's Name:G.A. BINAS Chemtrec Ind/Phone:(800)424-9300 CAGE:63415 === Contractor Identification === Company Name: COMPTECH CORP Address:15944 DERWOOD RD Box:City:ROCKVILLE State:MD ZIP:20855 Country:US Phone:800-284-5279; 301-519-3401 Contract Num:SP0450-01-M-ZH24 CAGE:0BR38 Company Name: SPECTRUM LABORATORY PRODUCTS INC Address:14422 S SAN PEDRO ST Box:City:GARDENA State:CA ZIP:90248-2027 Country:US Phone:310-51

6-8000/FAX: 310-516-9843 CAGE:63415

Ingred Name:HYDROGEN FLUORIDE CAS:7664-39-3 RTECS #:MW7875000 Minumum % Wt:25. Maxumum % Wt:51.9 OSHA PEL:SEE TABLE Z-2 ACGIH STEL:C2.6 MG/M3;C3 PPM EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:36.5 Maxumum % Wt:86.6

LD50 LC50 Mixture: VAPOR LC50: 483 PPM (RATS).

Health Hazards Acute and Chronic:EXTREMELY HAZARDOUS IN CASE OF SKIN CONTACT, OF EYE CONTACT, OF INGESTION, OF INHALATION. LIQUID OR SPRAY MIST MAY PRODUCE TISSUE DAMAGE PARTICULARLY ON MUCOUS MEMBRANES OF EYES, MOUTH & RESPIRATORY T RACT. SKIN CONTACT MAY PRODUCE BURNS. INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT. SEVERE OVEREXPOSURE CAN RESULT IN DEATH. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING & ITCHING. SKIN

INFLAMMATION IS CHARACTERIZED BY ITCHING,

SCALING, REDDENING, OR OCCASIONALLY BLISTERING. CHRONIC: REPEATED OR PROLONGED EXPOSURE MAY CAUSE TARGET ORGAN DAMAGE, C HRONIC EYE IRRITATION & SKIN IRRITATION.

Explanation of Carcinogenicity:CARCINOGENIC EFFECTS: NOT AVAILABLE. Effects of Overexposure:EXTREMELY HAZARDOUS IN CASE OF SKIN CONTACT (CORROSIVE, IRRITANT), OF EYE CONTACT (IRRITANT), OF INGESTION, OF INHALATION. LIQUID OR SPRAY MIST MAY PRODUCE TISSUE DAMAGE PARTICULA RLY ON MUCOUS MEMBRAN ES OF EYES, MOUTH & RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE BURNS. INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT, CHARACTERIZED BY COUGHING, CHOKING, OR SHORTNESS OF BREATH. SEVERE OVEREXPOSURE CAN RESULT IN DEATH. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING & ITCHING. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING, OR OCCA SIONALLY BLISTERING. Medical Cond Aggravated by Expos ure:NO DATA PROVIDED BY MANUFACTURER

First Aid:EYE: CHECK FOR & REMOVE CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, KEEP LIDS OPEN. SEEK MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHES/SHOES. FLUSH EXPOSED AREAS WITH WATER. SEEK MEDICAL ATTENTION. INHALATION: REMOVE VICTIM TO FRESH AIR. IF BRETAHING DIFFICULT, GIVE OXYGEN. IF BREATHING STOPPED, GIVE ARTIFICIAL RESPIRATIO

N. GET IMMEDIATE MEDICAL ATTENTION. ING ESTION: DO NOT INDUCE VOMITING! SEEK IMMEDIATE MEDICAL ATTENTION

Flash Point:NON-FLAMMABLE Extinguishing Media:NOT APPLICABLE. Fire Fighting Procedures:NOT AVAILABLE Unusual Fire/Explosion Hazard:NOT AVAILABLE.

Spill Release Procedures: DILUTE WITH WATER AND MOP UP OR ABSORB WITH AN INERT DRY MATERIAL AND P

LACE IN AN APPROPRIATE WASTE DISPOSAL

CONTAINER. NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF SODIUM CARBONATE. LARGE SPILL: CORROSIVE LIQUID. ABSORB WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. DO NOT GET WATER INSIDE CONTAINER. DO NOT TOUCH SPILLED MATERIAL. USE WATER SPRAY CURTAIN TO TO DIVERT VAPOR DRIFT.

Neutralizing Agent: IF NECESSARY NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF SODIUM CARBONATE.

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

Handling and Storage Precautions: MAY CORRODE METALLIC SURFACES. STORE IN A METALLIC OR COATED FIBERBOARD DRUM USING A STRONG POLYETHYLENE INNER PACKAGE. MAY CORRODE GLASS. STORE IN AN APPROPRIATE CONTAINER. CORROSIVE MATERIALS SHOULD BE STORED IN A SEPARATE SAFETY STORAGE CABINET OR ROOM. Other Precautions: KEEP LOCKED UP. KEEP CONTAINER DRY. DO NOT INGEST. DO NOT BREATHE GAS/FUMES/VAPORS/SPRAY. NEVER ADD WATER TO THIS

PRODUCT. IN CASE OF INSUFFICIENT

VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. IF INGESTED, SEEK MEDICAL ADVICE IMMEDIATELY & SHOW THE CONTAINER OR THE LABEL. AVOID CONTACT WITH SKIN & EYES.

Respiratory Protection: VAPOR RESPIRATOR. BE SURE TO USE AN APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT. Ventilation: PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATION OF VAPORS BELOW THEIR RESPECTIVE

THRESHOLD LIMIT VALUE.

Protective Gloves: GLOVES

Eye Protection: FACE SHIELD, SPLASH GOGGLES

Other Protective Equipment: ENSURE THAT EYEWASH STATIONS & SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION. SUGGESTED PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT; CONSULT A SPECIALIST BEFORE HANDLING THIS PRODUCT.

Work Hygienic Practices: WASH CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health

CATALOG NUMBERS: H1042, H1043, H1045, H1046, H1053.

====== Physic

HCC:C1 Boiling Pt:=100.C, 212.F B.P. Text:(WATER) Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE Vapor Pres:920 MMHG @20C Vapor Density:0.7(AIR=1) Spec Gravity:1(WATER=1) pH:2 [ACIDIC] Solubility in Water: EASILY SOLUBLE IN COLD Appearance and Odor:LIQUID; STRONG ODOR.

Stability Indicator/Materials to Avoid:YES

HIGHLY REACTIVE WITH METALS, ALKALIS. EXREMELY CORROSIVE IN PRESENCE OF ZIN

C. HIGHLY CORROSIVE IN PRESENCE OF GLASS, OF STEEL, OF ALUMINUM. CORROSIVE IN PRESENCE OF COPPER, OF STAINLESS STEEL (304), OF STAINLESS STEEL (316)

Stability Condition to Avoid:THE PRODUCT IS STABLE.

Hazardous Decomposition Products:NO DATA PROVIDED BY MANUFACTURER

Toxicological Information:CHRONIC: NON-CORROSIVE TO SKIN. NON-IRRITANT FOR SKIN. NON-PERMEATOR BY SKIN. NON-IRRITATING TO EYES. NON-HAZARDOUS IN CAS

E OF INGESTION. NON-HAZARDOUS IN CASE OF INHALATION. CARCINOGENIC EFFECTS: NOT AVAILABLE. MUTAGENIC EFFECTS: NOT AVAILABLE. TERATOGENIC EFFECTS: NOT AVAILABLE. DEVELOPMENTAL TOXICITY: NOT AVAILABLE. THE SUBSTANCE IS TOXIC TO LUNGS, MUCOUS MEMBRANES. REPEATED OR PROLONGED EXPOSU RE CAN PRODUCE TARGET ORGANS DAMAGE. REPEATED OR PROLONGED CONTACT WITH SPRAY MIST MAY PRODUCE CHRONIC EYE IRRITATION & SEVERE SKIN IRRITATION.PROLONGED OR REPEATED EXPOSURE TO SPRAY MIST MAY CAUSE

RE SPIRATORY TRACT IRRITATION.

Ecological:ECOTOXICITY: NOT AVAILABLE. BOD5 & COD: NOT AVAILABLE. PRODUCTS OF BIODEGRADATION: POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY. HOWEVER, LONG TERM DEGRADATION PRODUCTS MAY ARISE. TOXICITY OF THE PRODUCTS OF BIODEGRADATION: THE PRODUCTS OF DEGRADATION ARE LESS TOXIC THAN THE PRODUCT ITSELF. SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRA DATION: NOT AVAILABLE.

Waste Disposal Methods:RECYLCLE TO PROCESS, IF POSSIBLE. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

Transport Information:DOT CLASSIFICATION: CLASS 8-CORROSIVE LIQUID. IDENTIFICATION: HYDROFLUORIC ACID, SOLUTION (HYDROGEN FLUORIDE): UN1790, PG: II.

SAR

- A Title III Information:SARA 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES: HYDROFLUORIC ACID, 26-52%. SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING: HYDROFLUORIC ACID, 26-52%. CERCLA HAZARDOUS SUBSTANCES: HYDR OFLUORIC ACID, 26-52%.
- Federal Regulatory Information:TSCA 8(B) INVENTORY: HYDROFLUORIC ACID, 26-52%.
- State Regulatory Information: PENNSYLVANIA RTK: HYDROFLUORIC ACID, 26-52%; MASSACHUSETTS RTK: HYDROFLUORIC ACID, 26-52%.

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