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FISHER SCIENTIFIC CO. CHEMICAL MFG DIV -- HYDROFLUORIC ACID -- 6810-00-237-2920

Product ID:HYDROFLUORIC ACID MSDS Date:10/30/2000 FSC:6810 NIIN:00-237-2920 Status Code:A MSDS Number: CLMND === Responsible Party === Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV Address:1 REAGENT LANE **City:FAIR LAWN** State:NJ ZIP:07410-2802 Country:US Info Phone Num:201-796 -7100 Emergency Phone Num: (800) 424-9300 Resp. Party Other MSDS Num.:11171 Chemtrec Ind/Phone:(800)424-9300 CAGE:1B464 === Contractor Identification === Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV Address:1 REAGENT LANE Box:City:FAIRLAWN State:NJ ZIP:07410-2802 Country:US Phone:201-796-7100 CAGE:1B464

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 > Wt:50.

Ingred Name:HYDROFLUORIC ACID CAS:7664-39-3 RTECS #:MW7 875000 Fraction by Wt: 48-50% OSHA PEL:SEE TABLE Z-2 ACGIH STEL:C2.6 MG/M3;C3 PPM EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO Health Hazards Acute and Chronic: EYE: CONTACT WITH LIQUID OR VAPOR CAUSES SEVERE BURNS AND POSSIBLE IRREVERSIBLE EYE DAMAGE. INGESTION: CAUSES SEVERE DISGESTIVE TRACT BURNS WITH ABDOMINAL PAIN, VOMITING, & POSSIBLE DEATH. MAY CAUSE SY STEMIC TOXIC EFFECTS ON THE HEART.SKIN:FATAL, CAUSES SEVERE BURNS WITH DELAYED TISSUE DESTRUCTION. SUBSTANCE IS RAPIDLY ABSORBED THROUGH THE SKIN. PENETRATION MAY CONTINUE FOR SEVERAL DAYS.CAUSES SEVE RE TISSURE NECROSIS AND BONE DESTRUCTION.INHALATION: HARMFUL IF INHALATED. MAY CAUSE IRRITATION OF THE UPPER RESPIRATORY TRACT WITH PAIN, BURNS, AND INFLAMMATION. MAY CAUSE PULMONARY EDEMA AND SEVERE RESPIRATORY DISTURBANCES.SEE OTHER INFO Effects of Overexposure:HAR MFUL IF INHALED. MAY CAUSE SKELETAL ABNORMALITIES. MAY CAUSE KIDNEY DAMAGE. CAUSES SEVERE EYE AND

SKIN BURNS. CAUSES SEVERE DIGESTIVE AND RESPIRATORY TRACT BURNS.FATAL IF ABSORBED THROUGH THE SKI N. REPEATED INHALATION MAY CAUSE CHRONIC BRONCHITIS. CHRONIC EXPOSURE TO FLUORIDE COMPOUNDS MAY CAUSE SYSTMIC TOXICITY.ACUTE EXPOSURE TO FLUORINE COMPOUNDS CAN LEAD TO DIGESTIVE TRACT BURNS AND ABDOMI NAL PAIN. INGESTION CAUSES SALVATION, NAUSEA, VOMITING, ABDOMINAL PAIN, F EVER, LABORED

BREATHING

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS. GET MEDICAL AID IMMEDIATELY. DO NOT ALLOW VICTIM TO RUB OR KEEP EYES CLOSED. EYE EXPOSURE MAY BE TREATED BY IRRI GATION WITH 1% CALCIUM GLUCONATE DROPS AFTER IMMEDIATE AND COPIOUS IRRIGATION WITH WATER FOR AT LEAST 30 MINUTES. SKIN: FLUSH WITH PLENTY OF SOAP AND WATER FOR AT LEAST 1 MINUTES WHILE REMOVING CONTA MINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. SEE OTHER PRECAUTIONS.

	Fire Fighting Measures	
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Extinguishing Media:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. FIRE.LARGE FIRES USE WATER SPRAY, FOG OR ALCOHOL-RESISTANT FOAM. SNALL FIRES; CO2, DRY CHEMICAL, DRY SAND, OR ALCOHOL-RESISTANT FOAM Fire Fighting Procedures:AS IN ANY FIRE, WEAR A SELF-CONTAINED

BREATHING APPARATUS IN PRESSURE-DE

MAND, MSHA/NIOSH (APPROVED OR

EQUIVALENT), AND FULL PROTETIVE GEAR. DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENE RATED BY THERMAL DECOMPOSITION OR COMBUSTION.

- Unusual Fire/Explosion Hazard:REACTS WITH MOST METALS TO FORM HIGHLY FLAMMABLE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES WITH AIR. CONTAINERS MAY EXPLODE IN THE HEAT OF A FIRE. VAPORS MAY BE HEAVIER THAN AIR. THEY CAN SPREAD ALONG THE GROUND AND COLLECT IN LOW OR CONFINED AREAS.SUBSTANCE IT
- SELF MAY DECOMPOSE UPON HEATING TO PRODUCE TOXIC FUMES

Spill Release Procedures: AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. WEAR A SELF CONTAINED BREATHING APPARATUS AND APPROPRIATE PERSONAL PROTECTION. NEUTRALIZE SPILL WITH SODIUM BICARBONATE. USE WATER S PRAY TO DISPERSE THE GAS/VAPOR. REMOVE ALL SOURCES OF IGNITION. PROVIDE VENTILATION. Neutralizing Agent: SODIUM BICARBONATE.

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Handling and Storage Precautions: WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE WITH ADEQUATE VENTILATION. DO NOT GET ON SKIN OR IN EYES. DO NOT INGEST OR INHALE. STORE IN A COOL, DRY, WELL-VE NTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. CORROSIVES AREA. DO NOT STORE IN METAL OR GLASS

Other Precautions: FIRST AID CONT: DISCARD CONTAMINATED CLOTHING IN A MANNER WHIC

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H LIMITS FURTHER EXPOSURE. DESTROY CONTAMINATED SHOES. FOR EXPOSURES TO HYDROFLUORIC ACID CONCENTRATIONS LESS THAN 20%, LIBERAL AND FREQUE NT APPLICATIONS OF 2.5% CALCIUM GLUOCONATE GEL MAY BE APPLIED. SEE OTHER INFORMATION.

Respiratory Protection: FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN EN 149 APPROVED RESPRIATOR WHEN NECESSA RY. Ventilation: USE PROCESS ENCLOSURE, LOCAL EXHAUST VENTILATION, OR OTHER ENIGNEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. Protective Gloves: APPROPRIATE PROTECTIVE GLOVES Eye Protection: PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES. Other Protective Equipment: WEAR A CHEMICAL APRON. WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE. Work Hygienic Practices: WASH HANDS AFTER USE. Supplemental Safety and Health P/N: A146 10LB, A146 1LB, A146-10LB, A146-1LB, A14610LB, A1461LB, A147 10LB, A147 1LB, A147-10LB, A147-1LB, A14710LB, A1471LB, A147J1LB, A463 500, A463-1, A463-250, A463-500, A4631, A4632, A463250, A 513 500, A513-500, A513500, NC9394800. HCC:C1 Boiling Pt:=66.1C, 151.F Melt/Freeze Pt:=-71.C, -95.8F Vapor Pres:NA Vapor Density:2.21 AIR=1 Spec Gravity:1.2 pH: 90 ML/KG. CAS #7664-39-3: INHALATION MOUSE: LC50=342 PPM/1H. INHALATION RA T : LC50= 1276 PPM/1H. CARCINOGENICITY; CAS # 7732-18-5: NOT LISTED AS A CARCINOG EN BY ACGIH, IARC, NIOSH, NTP, OSHA, OR CA PROP 65. CAS # 7664-39-3: ACGIH:A4- NOT LISTED AS A HUMAN CARCINOGEN (AS F) (LISTED AS FLUORIDES). CALIFRONIA; NOT LISTED. NISOH: NOT LISTED. OSHA: NOT LISTE D. IARC: SUPLEMENT 7, 1987; MONOGRAPH 27, 1982. EPIDEMIOLOGY: NO INFORMATION AVAILABLE. TERATOGENICTY: NO INFORMATION AVAILABLE. REPRODUCTIVE: TCLO-LOWER PUBLISHED TOXIC CONCENTRATION: INHA

LATION, ROD ENT-RAT: 470UG/M3/4H: FEMALE1-22 DAYS.

Ecological:ECOTOXICITY: FISH (FRESH WATER) 60 PPM LETHAL (TIME PERIOD NOT SPECIFIED). ENVIRONMENTAL: NO INFORMATION REPORTED. PHYSICAL: BONE RETAINS 60% OF IV-INJECTED FLUORIDE AND THAT THE HALF-TIME FOR THIS UP TAKE IS ONLY ABOUT 13 MIN; BOTH BLOOD AND EXTRACELLULAR FLUID LEVELS THEREFORE DECR RAPIDLY. AFTER INGESTION OF SODIUM FLUORIDE, PLASMA FLUORI DE LEVELS SHOW A MUCH SLOWER CHANGE WITH A

DE LEVELS SHOW A MUCH SLOWER CHANGE WITH A HALF-LIFE OF AB OUT 3 HR.

Waste Disposal Methods:CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER A DISCARDED CHEMIAL IS CLASSIFIED AS A HAZARDOUS WASTE. US EPA GUIDELINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40CFR 261.3. ADDITIONALL, WASTE GENERATORS MUST CONSULT STATE AND LCOAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND AC CURATE CLASS

IFICATION.

Transport Information:DOT;PROPER SHIPPING NAME: HYDROFUORIC ACID, SOLUTION POISON. HAZARD CLASS: 8. UN NUMBER: UN1790. PACKING GROUP:II. IATA; PROPER SHIPPING NAME; HYROFLUORIC ACID SOLUTION, HAZARD CLASS: 8. UN NUMBER: UN 1790. PACKING GROUP:II. IMO; PROPER SHIPPING NAME; HYDROFLUORIC ACID SOLUTION, HAZARD CLASS: 8. UN NUMBER: UN1790. PACKING GROUP:II

======= Regulatory Informat

SARA Title III Information:SARA THRESHOLD PLANNING QUANTITIES (TPQ) CAS #7664-39-3: TPQ=100 LBS; RQ=100 LBS. SARA HAZARD CATEGORIES; CAS # 7664-39-3: ACUTE, CHRONIC. SARA SECTION 313; THIS MATERIAL CONTAINS HYDROFLUORIC ACID (C AS # 7664-39-3, 48-50%), WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III AND 40 CFR PART 372

Federal Regulatory Information:TSCA; CAS #7732-18-5 IS LISTED ON THE TSCA INVENTORY. CAS #7664-

39-3 IS LISTED ON TSCA INVENTORY. HEALTH
AND SAFETY REPORTING; NONE OF THE COMPONENTS ARE ON THIS LIST.
CERCLA REPORTING QUANTITIES (RQ) CAS # 7664-39-3: FINAL RQ=100
LBS.CLEAN AIR ACT-HAZARDOUS AIR POLLUTANTA: CAS#7664-39-3 IS LISTED
AS A HAZARDOUS AIR POLLUTANT. CLEAN AIR ACT-CLASS 1/ CLASS 2, OZONE
DEPLETORS: NONE OF THE COMPONENTS ARE ON THIS LISTCLEAN WATER ACT:
CAS#7664-39-3 IS LISTED AS HAZARDOUS SUBSTANCE UNDER THE CWA. OSHA
-HIGHLY HAZARDOUS: CAS#7664-39-3
IS CONSIDERED HIGHLY HAZARDOUS BY

OSHA.

State Regulatory Information:STATE RIGHT TO KNOW; HYDROFUORIC ACID CAN BE FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS. CALIFRONIA PROP 65: NONE OF THE COMPONENTS ARE ON THIS LIST. CALIFRONIA NO SIGNIFICANT RISK LEVEL: NO INFORMATION FOUND.CAS # 7664-39-3 IS LISTED ON CANADA'S INGREDIENT LIST.

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