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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

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

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

> Wt:50.

Ingred Name: HYDROFLUORIC ACID

CAS:7664-39-3 RTECS #:MW78 75000

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

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

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 S

Y 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

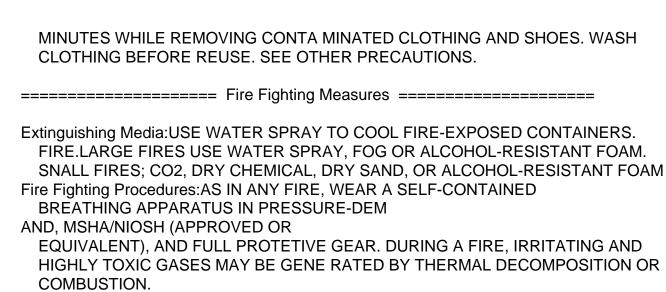
Effects of Overexposure:HARM

FUL 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, FE

VER, 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 15



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 ITS

ELF MAY DECOMPOSE UPON HEATING TO PRODUCE TOXIC FUMES

=======================================	Accidental Release Measures	=======================================

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.

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

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 WHICH

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.

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

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 NECESSAR

Υ.

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, A

146-10LB, 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.

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

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 RAT

: 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: INHAL

ATION, ROD ENT-RAT: 470UG/M3/4H: FEMALE1-22 DAYS.		
========= Ecological Information ===========		
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 FLUORID E LEVELS SHOW A MUCH SLOWER CHANGE WITH A HALF-LIFE OF AB OUT 3 HR.		
======== Disposal Considerations ===========		
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 CLASSI FICATION.		
======== MSDS Transport Information ==========		
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		
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SARA Title III Information:SARA THRESHOLD PLANNING QUANTITIES (TPQ) CAS		

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 #7664-3

- 9-3 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 I
- S 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.

 Other Information	

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