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# HYDROFLUORIC ACID, 49%

# **MSDS Number**

BHLFD

# **National Stock Number**

6810-00F009596

### **Product Name**

HYDROFLUORIC ACID, 49%

### Manufacturer

FISHER SCIENTIFIC

# **Product Identification**

Product ID:HYDROFLUORIC ACID, 49% MSDS Date:06/11/1986 FSC:6810 NIIN:00F009596 MSDS Number: BHLFD

# **Responsible Party**

FISHER SCIENTIFIC

1 REAGENT LANE

FAIR LAWN, NJ 07410

Emergency Phone: (201) 796-7100

Info Phone: (201) 796-7100

Cage: 1B464

### Contractor

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

FAIRLAWN, NJ 07410-2802

US

201-796-7100

Cage: 1B464

# Ingredients

HYDROGEN FLUORIDE (SARA III) CAS: 7664-39-3 RTECS: MW7875000 Fraction By Weight: 49% OSHA PEL3 PPM/6 STEL (F) ACGIH TLV: C 3 PPM (F); 9192 EPA Report Quantity: 100 LBS DOT Report Quantity: 100 LBS

WATER, H2O CAS: 7732-18-5 RTECS: ZC0110000 Fraction By Weight: 51% Hazards



LD50 LC50 Mixture:100 PPM/1 MIN MAN TCLO INHALATION Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION: FEVER, COUGH, DYSPNEA, CYANOSIS, & PULMONARY EDEMA OR BRONCHOPNEUMONIA. CORROSIVE/HIGHLY TOXIC. HIGH LELS MAY CAUSE ULCERATIVE TRAACHEOBRONCHITIS/HEMORRHAGIC PULMONARY EDEMA. SKIN/EYES: IR RITATION, BURNS, BLINDNESS. INGESTION: NAUSEA, VOMITING, DIARRHEA, CONVULSIONS, DEATH. Explanation of Carcinogenicity:NONE Effects of Overexposure: HYDROGEN FLUORIDE IS A HIGHLY TOXIC, SEVERE EYE, MUCOUS MEMBRANE & SKIN IRRITANT. POISONING AFFECTS THE BRAIN, KIDNEYS, CARDIOVASCULAR, NEUROMUSCULAR, & GASTROINTESTINAL SYSTEM. CHRONIC EXPOSURE MAY P RODUCE FLUOROSIS OF SKELETAL SYSTEM. INHALATION: SYMPTOMS CENTRAL NERVOUS/HEADACHE/SALIVATION/COMA/CONVULSIONS/DEATH.

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Medical Cond Aggravated by Exposure:DEATH FROM PULMONARY EDEMA OCCURED W/IN 2 HRS IN 3 OF 6 WORKERS SPLASHED W/70% SOLUTION, DEPSITE PROMPT SHOWERING.

#### **First Aid**

First Aid:INHALATION: REMOVE FROM EXPOSURE AREA TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP AFFECTED PERSON WARM/AT REST. SKIN: REMOVE CONTAMINATED CLOTHING/SHOES. WASH AFFECTED AR EA W/SOAP OR MILD DETERGENT/LARGE AMTS OF WATER. EYES: WASH W/LARGE AMTS OF WATER. INGESTION: IF VICTIM IS CONSCIOUS, GIVE LARGE QTYS OF WATER TO DILUTE THE ACID. DON'T INDUCE VOMITING. GET MED ATTN.

### **Fire Fighting**

Flash Point:NONFLAMMABLE Extinguishing Media:DRY CHEMICAL, CO2, WATER SPRAY, FOG OR ALCOHOL FOAM.

Fire Fighting Procedures:DON'T GET WATER INSIDE CONTAINER. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. COOL FIRE-EXPOSED CONTAINERS W/WATER FROM SIDE UNTIL WELL AFTER FIRE IS OUT. Unusual Fire/Explosion Hazard:ISOLATE AREA UNTIL GAS HAS DISPERSED. SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

### **Accidental Release**

Spill Release Procedures:STOP LEAK IF YOU CAN DO IT W/O RISK. USE WATER SPRAY TO REDUCE VAPORS BUT DON'T PUT WATER ON LEAK OR SPILL AREA. ISOLATE AREA UNTIL GAS HAS DISPERSED. FOR LARGE SPILLS, DIKE FAR AHEAD OF SPILL FOR LAT ER DISPOSAL. EVACUATE AREA ENDANGERED BY GAS.

Neutralizing Agent:SLAKED LIME, SODIUM BICARBONATE OR CRUSHED LIMESTONE

#### Handling

Handling and Storage Precautions:DON'T GET WATER INSIDE CONTAINER. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID BREATHING CORROSIVE VAPORS.

#### **Exposure Controls**

Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS W/FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE, OR EQUIVALENT RESPIRATOR FOR LEVELS OF 15 MG/CUM. Ventilation:PROVIDE LOCAL EXHAUST VENTILATION TO KEEP Protective Gloves:ACID RESISTANT Eye Protection:SAFETY GOGGLES, FACESHIELD Other Protective Equipment:PROVIDE AN EYE-WASH FOUNTAIN WITH THE IMMEDIATE WORK AREA. Supplemental Safety and Health POISONING MAY CAUSE HYPOMAGNESEMIA/HYPOCALCEMIA RESULTING IN TETANY ESPECIALLY OF EXTREMITIES/MUSCLE SPASMS/CONVULSIONS/PARASTHESIAS/HYPOTENSION/SHOCK/SINUS TACHYCARDIA/CARDIAC ARRHYTHMIAS/MULTIPLE AT TACTKS OF VENTRICULAR FIBRILLATION/DEATH. REPEATED/PROLONGED EXPOSURE TO LOW VAPOR LEVELS MAY CAUSE CONJUNCTIVITIS.



#### **Chemical Properties**

Boiling Pt:B.P. Text:226F Vapor Pres:10 Vapor Density:0.7 Spec Gravity:1.1-1.2 pH:ACID Solubility in Water:COMPLETE Appearance and Odor:COLORLESS, FUMING LIQUID WITH A PUNGENT ODOR.

#### Stability

Stability Indicator/Materials to Avoid:YES REACTS EXOTHERMICALLY W/WATER. CORROSIVE TO GLASS, SILICEOUS MATERIALS, METALS, CYANOGEN FLUORIDE, ARSENIC/CALCIUM OXIDE Stability Condition to Avoid:HEAT, FLAME Hazardous Decomposition Products:MAY RELEASE CORROSIVE HYDROGEN FLUORIDE, HYDROGEN GAS.

#### Disposal

Waste Disposal Methods:SARA REPORTABLE QTY = 100 LBS.

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