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HYDROCHLORIC ACID, 37%

MSDS Number

BBBQN

National Stock Number

6810-00B130001

Product Name

HYDROCHLORIC ACID, 37%

Manufacturer

MALLINCKRODT

Product Identification

Product ID:HYDROCHLORIC ACID, 37% MSDS Date:09/10/1986 FSC:6810 NIIN:00B130001 MSDS Number: BBBQN

Responsible Party

MALLINCKRODT

PARIS , KY 43061

US

Emergency Phone: 314982-5000

Cage: ZA916

Contractor

MALLINCKRODT SPECIALTY CHEMICALS CO

PHILLIPSBURG, NJ 08865

US

908-859-2151

Cage: 62910

Ingredients

HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS: 7647-01-0

RTECS: MW4025000

Fraction By Weight: 37%

OSHA PELC 5 PPM

ACGIH TLV: C 5 PPM; 9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic:INHALATION:CORROSIVE!INHALATION OF VAPORS CAN CAUSE COUGHING,CHOKING INFLAMATION OF THE NOSE,THROAT,AND UPPER RESPIRATORY TRACT.INGESTION:CORROSIVE!SWALLOWING CAN CAUSE IMMEDIATE PAIN AND BURNS OF THE MOUTH,THROAT,ESOPHAGUS AND GASTROINTESTINAL TRACT.MAY CAUSE NAUSEA,VOMITING,AND DIARRHEA.REFER TO SUPPL SAFETY/HEALTH. Effects of Overexposure:INHALATION OF HIGH CONCENTRATIONS MAY CAUSE LUNG DAMAGE.SKIN CONTACT:CONCENTRATED SOLUTIONS CAUSE DEEP ULCERS



AND DISCOLOR SKIN.LONG-TERM EXPOSURE TO CONCENTRATED VAPORS MAY CAUSE EROSION OF TEETH.LON G TERM EXPOSURES SELDOM OCCUR DUE TO THE CORROSIVE PROPERTIES OF THE ACID.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

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First Aid

First Aid:INHALATION:REMOVE TO FRESH AIR.IF NOT BREATHING,GIVE ARTIFICIAL RESPIRATION.IF BREATHING IS DIFFICULT GIVE OXYGEN.INGESTION:DO NOT INDUCE VOMITING.GIVE LARGE QUANT.OF WATER OR MILK.GET MEDICAL ATTENTI ON.SKIN CONTACT:IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR 15 MIN.REMOVE CONTAM.CLOTHING&SHOES.EYE CONTACT:WASH W/PLENTY OF WATER FOR 15 MIN.LIFTING LOWER AND UPPER EYELIDS.GET MEDICAL ATTEN.

Fire Fighting

Extinguishing Media: IF INVOLVED IN A FIRE, USE WATER SPRAY. Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE MODE. Unusual Fire/Explosion Hazard: NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

Accidental Release

Spill Release Procedures:SMALL SPILLS:FLUSH WITH WATER AND NEUTRALIZE WITH ALKALINE MATERIAL(SODA ASH,LIME,ETC)SEWER NEUTRALIZED MATERIAL WITH EXCESS WATER.LARGE SPILLS AND LOT SIZES:NEUTRALIZE W/ALKALINE MATERIAL,PICK UP W/A BSORBENT MATERIAL(SAND,EARTH,VERMICULITE). Neutralizing Agent:ALKALINE MATERIAL

Handling

Handling and Storage Precautions:CONTAINERS MAY BURST WHEN HEATED.KEEP IN A TIGHTLY CLOSED CONTAINER,STORED IN A COOL,DRY,VENTILATED AREA.PROTECT FROM PHYSICAL DAMAGE&DIRECT SUNLIGHT. Other Precautions:ISOLATE FROM INCOMPATIBLE SUBSTANCES.PROTECT FROM MOISTURE.DANGER!CORROSIVE LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE.MAY BE FATAL IF SWALLOWED.HARMFUL IF INHALED.INHALATION MAY CAUSE LUNG DAMAGE.

Exposure Controls

Respiratory Protection:IF THE TLV IS EXCEEDED A FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR MAY BE WORN.ALTERNATIVELY,A SUPPLIED AIR FULL FACEPIECE RESPIRATOR OR AIRLINED HOOD MAY BE WORN. Ventilation:LOCAL AND/OR GENERAL EXHAUST TO KEEP EMPLOYEE EXPOSURE BELOW AIRBORNE EXPOSURE LIMITS.LOCAL EXHAUST VENTI.IS PREFERRED. Protective Gloves:RUBBER OR NEOPRENE GLOVES Eye Protection:CHEMICAL SAFETY GOGGLES/FULL FACE SHIELD Other Protective Equipment:IMPERVIOUS BOOTS,APRON,OR COVERALLS TO PREVENT SKIN CONTACT.CONTACT LENSES SHOULD NOT BE WORN. Work Hygienic Practices:MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING. Supplemental Safety and Health

SUPPLETENTIAL SAFETY AND THEATTH SKIN CONTACT:CAN CAUSE REDNESS,PAIN,AND SEVERE SKIN BURNS.EYE CONTACT:VAPORS ARE IRRITATING AND MAY CAUSE DAMAGE TO THE EYES.SPLASHES MAY CAUSE SEVERE BURNS AND PERMANENT EYE DAMAGE.THIS IS A CORROSIV E MATERIAL.THIS SUBSTANCE IS CLASSIFIEDAS A POISON UNDER THE FEDERAL CAUSTIC POISON ACT.

Chemical Properties

Boiling Pt:B.P. Text:53C(127F) Melt/Freeze Pt:M.P/F.P Text:74C(101F) Vapor Pres:190@ 25C Spec Gravity:1.18 Solubility in Water:INFINITE Appearance and Odor:CLEAR,COLORLESS FUMING LIQUID W/PUNGENT ODOR OF HYDROGEN CHLORIDE.

Stability

Stability Indicator/Materials to Avoid:YES CYANIDES,SULFIDES,SULFITES,AND FORMALDEHYDE.ALSO W/STRONG BASES,METALS,METAL OXIDES,HYDROXIDES,AMINES,CARBONATES. Stability Condition to Avoid:STABLE UNDER ORINARY CONDITIONS OF USE AND STORAGE.

Hazardous Decomposition Products: EMITS TOXIC HYDROGEN CHLORIDE FUMES AND WILL REACT WITH WATER OR STREAM TO PRODUCE HEAT AND TOXIC AND CORROSIVE FUMES.

Disposal

Waste Disposal Methods:DISPOSE IN A RCRA-APPROVED WASTE FACILITY OR SEWER THE NEUTRALIZED SLURRY WITH EXCESS WATER IF LOCAL ORDINANCES ALLOW.

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