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Product ID:FORMIC ACID 88% MSDS Date:07/13/1987 FSC:6810 NIIN:00-264-8954 MSDS Number: BDQXK === Responsible Party === Company Name: MALLINCKRODT, INC Address: PARIS BYPASS Box:M City:PARIS State:KY ZIP:40361 Country:US Info Phone Num:314-982-5000 Emergency Phone Num:314-982-5000 CAGE:DO880 === Contractor Ident ification === Company Name: MALLINCKRODT SPECIALTY CHEMICALS CO Address:222 RED SCHOOL LANE Box:City:PHILLIPSBURG State:NJ ZIP:08865 Country:US Phone:908-859-2151 CAGE:62910 Company Name: MALLINCKRODT, INC., SCIENCE PRODUCTS DIV. Box:BOX M City:PARIS State:KY ZIP:43061 Country:US CAGE:DO880

Ingred Name:FORMIC ACID (SARA III) CAS:64-18-6 RTECS #:LQ4900000 Fraction by Wt: 88% OSHA PEL:5 PPM ACGIH TLV:5 PPM/10 STEL; 9192 EPA Rpt Qt y:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 12.0%

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Effects of Overexposure:EYES-TISSUE & CORNEAL DAM. SKIN-SEVERE IRRIT;REDNESS,PAIN,BURNS. INHAL-SEVERE IRRIT OF NOSE,THROAT,UPPER RESPIR TRACT;POSS LUNG DAMAGE. INGEST-SERIOUS BURNS,CORROSION OF MOUTH,THROAT,ESOPHAGUS,W/IMMED PAIN,DIFFICULT SWALLOWING ;ALSO,ABDOM PAIN,NAUSEA,DIARRHEA,VOMIT;POSS SHORTNESS OF BREATH;DEATH.

Medical Cond Aggravated by Exposure:NONE KNOWN

First Aid:EYE-FLUSH W/WATER 15 MIN;GET IMMED MED ATTN. SKIN-REMOVE CONTAM CLOTH;WASH AREA W/WATER 15 MIN;IF IRRIT PERSIST,GET MED ATTN. INHAL-GET TO FRESH AIR;GIVE ARTIF RESPIR IF REQD;GET MED ATTN. INGEST-IF C ONSCIOUS,GIVE LGE QTY WATER. DO NOT INDUCE VOMIT;GET MED ATTN.

Flash Point Method:CC Flash Point:122F/50C Lower Limits:18 Upper Limits:57 Extinguishing Media:DRY CHEMICAL,FOAM,CARBON DIOXIDE. WATER SPRAY MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL. Fire Fighting Procedures:WEAR FULL PROTECT CLOTH & NIOSH-APPROVED SLF-CONTND BREATH APPAR W/FULL FACEPIECE OPER IN PRESS DEMAND MODE/OTHER POS PRESSURE MODE. Unusual Fire/Explosion Hazard:NOT GIVEN

================= Accidental Release Measu

Spill Release Procedures: VENT AREA; REMOVE ALL SOURCES IGNITION. USE PROTECT CLOTH & RESPIR PROTECT FM VAPORS. CONTAIN & RECOVER LIQ WHEN POSS. ABSORB RESIDUE W/VERMICULITE, DRY SAND ETC. DO NOT FLUSH TO SEWER.

Handling and Storage Precautions:AVOID CONTACT W/EYES,SKIN,CLOTHING;AVOID BREATHING MIST. KEEP CONTNR CLOSED. USE W/ADEQUATE VENT. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FM HEAT.

Other Precautions: SHOULD BE HANDLED IN 316 STAINLESS STEEL GLASS, CERAMIC, OR SIMILAR CORROSION RESISTANT MATLS.

Respiratory Protection:IF TLV EXCEED-FULL FACEPIECE CHEM CART RESPIR;SUPPLIED AIR FULL FACEPIECE RESPIR OR AIRLINED HOOD Ventilation:LOCAL OR GENERAL EXHAUST. LOCAL EXHAUST PREFERRED Protective Gloves:RUBBER OR NEOPRENE Eye Protection:CHEM SAF GOGGLES OR FULL FACESHIELD Other Protective Equipment:FULL PR OTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION Supplemental Safety and Health MSDS FM MFR DATED 01 NOV 85,CONFORMS TO OSHA HAZ COMM STD.

HCC:F6 Boiling Pt:=107.2C, 225.F Melt/Freeze Pt:=-12.2C, 10.F Vapor Pres:40 Vapor Density:1.6 Spec Gravity:1.2 Evaporation Rate & amp; Reference:2.1 /BUTACET=1/ Solubility in Water:COMPLETE Appearance and Odor:CLEAR,COLORLESS LIQUID;CHARACTERISTIC,PUNGENT ODOR

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Stability Indicator/Materials to Avoid:YES SULFURIC ACID,STRONG CAUSTICS,FURFURYL ALCOHOL,HYDROGEN PEROXIDE,STRONG OXIDIZERS & BASES. Stability Condition to Avoid:NOT GIVEN Hazardous Decomposition Products:CARBON MONOXIDE;CARBON DIOXIDE.

Waste Disposal Methods:CAN ATOMIZE IN SUITABLE RCRA APPROVED COMBUSTION CHEMBER OR SEND TO RCRA APPROVED DISPOSAL FACILITY. ENSURE COMPL

IANCE W/LOCAL, STATE & FED REGS.

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