

MALLINCKRODT,INC -- FORMIC ACID 88% -- 6810-00-264-8954

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Product Identification
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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

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Composition/Information on Ingredients
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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%

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

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

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===== First Aid Measures =====

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.

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===== Fire Fighting Measures =====

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

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===== Accidental Release Measu

res =====

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 =====

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.

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

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 PROTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION
Supplemental Safety and Health
MSDS FM MFR DATED 01 NOV 85,CONFORMS TO OSHA HAZ COMM STD.

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

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 & Reference:2.1 /BUTACET=1/
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR,COLORLESS LIQUID;CHARACTERISTIC,PUNGENT ODOR

===== Stabil

ity and Reactivity Data =====

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.

===== Disposal Considerations =====

Waste Disposal Methods: CAN ATOMIZE IN SUITABLE RCRA APPROVED COMBUSTION CHAMBER OR SEND TO RCRA APPROVED DISPOSAL FACILITY. ENSURE COMPLIANCE W/LOCAL, STATE & FED REGS.

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