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MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION -- FORMALDEHYDE -- 6810-00-069-2958

Product ID:FORMALDEHYDE MSDS Date:01/20/1988 FSC:6810 NIIN:00-069-2958 MSDS Number: BCXGD === Responsible Party === Company Name: MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION Address: PARIS BYPASS Box:M City:PARIS State:KY ZIP:40361 Info Phone Num:314-982-5000 **Emergency Phone Num:314-98** 2-5000 Preparer's Name:NOT PROVIDED CAGE:62910 === Contractor Identification === 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 Ingred Name: FORMALDEHYDE (SARA III) CAS:50-00-0 RTECS #:LP8925000 Fraction by Wt: 37.0% Other REC Limits:NONE OSHA PEL:SEE 1910.1048 ACGIH TLV:C 0.3 PPM; A2; 9293 EPA Rpt Qty:100 LBS DOT R

pt Qty:100 LBS

Ingred Name:METHANOL (METHYL ALCOHOL)
CAS:67-56-1 RTECS #:FC1400000
Fraction by Wt: 10-15%
Other REC Limits:NONE
OSHA PEL:S,200PPM/250STEL
ACGIH TLV:S,200PPM/250STEL; 93
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS
Ingred Name:WATER WT% BY DIFFERENCE
CÁS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 48-53%
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LD50 LC50 Mixture:LD50 ORAL RAT=800MG/KG
Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES
Reports of C
arcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:ACUTE:SEE SIGNS & SYMPTOMS OF
OVEREXPOSURE. CHRONIC: HYPERSENSITIVITY LEADING TO CONTACT DERMATITIS, ALLERGIC REACTION, VISION IMPAIRMENT, ENLARGEMENT OF
LIVER.
Explanation of Carcinogenicity:FORMALDEHYDE IS A SUSPECTED HUMAN
CARCINOGEN.
Effects of Overexposure:EYES:IRRITATION,REDNESS,PAINS,BLURRED
VISION, IRREVERSIBLE EYE
DAMAGE;SKIN:REDNESS,PAIN,BURNS,DISCOLORATION,CRACKING,SCALING;SKIN ABSORP
TION:SAME SYMPTOMS AS INGESTION;INHALATION:SORE
THROAT, COUGH, SHOR TNESS OF BREATH, IRRITATION, SEVERE RESPIRATORY
TRACT INJURY LEADING TO PULMONARY EDEMA & PNEUMONITIS-SEE
SUPPLEMENTAL DAT
Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROBLEMS, OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY
FUNCTION.
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First Aid:EYES:WASH WITH PLENTY OF WATER FOR 15 MINUTES.SEE DOCTOR IMMEDIATELY

SKIN:FLUSH WITH PLENTY OF WATER FOR 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING & SHOES;INHALATION:REMOVE TO FRESH AIR.GIVE CPR /OXYGEN IF NEEDED.SEE DOCTOR;INGESTION:GIVE 2 GLASSES OF WATER.INDUCE VOMIT.NOTHING BY MOUTH IF UNCONSCIOUS.SEE DOCTOR IMMEDIATELY.

Spill Release Procedures:ELIM IGN SOURCES,VENTLT & EVAC AREA.USE PROTCTV CLTHG/RESP PROTCTION FM VAP.CONTAIN & RECOVR LIQ IF POSS.ABSORB W/VRMCULITE,EARTH,ETC.SCOOP UP W/NON-SPARKG TOOLS & PLACE IN CLOSD CNTNRS.USE H\*20 SPRAY TO DISPERSE VAP/COOL CNTNR.DO NOT FLUSH TO SEWR.

Handling and Storage Precautions:PROTCT AGAINST PHYSICAL DAMAGE.STORE IN COOL,DRY WELL VNTLTD AREA AWAY FM ING/HEAT SOURCES,OXIDZG MATL.OUTSIDE OR DETACHED STORAGE IS PREFFERED.
Other Precautions:KEEP AWAY FROM HEAT,SPARKS,FLAMES.KEEP CONTNRS CLOSED.USE W/ADEQUATE VENT.AVOID BRTHG VAP.WASH THOROUGHLY AFTER HNDLG.BOND/GROUND CONTNRS WHEN TRNSFRG MATERL.USE NON-SPARKG TYPE TOOL & EQUIP.

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

Respiratory Protection:SCBA, SUPPLIED AIR RESPIRATOR Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV. Protective Gloves:IMPERVIOUS Eye Protection:GOGGLES/FACE SHIELD Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION Work Hygienic Practice s:WASH HANDS,FACE,FOREARMS & NECK WHEN EXITING RESTRICTED AREAS-SEE SUPPLEMENTAL DATA. Supplemental Safety and Health CONT'D FROM SIGNS & SYMPTOMS OF OVEREXPOSURE;MAY BE FATAL IN HIGH CONCENTRATIONS;INGESTION:SEVERE ABDOMINAL PAIN,VIOLENT VOMIT,HEADACHE,DIARRHEA,DECREASED BODY TEMPERATURE,PAIN IN DIGESTIVE TRACT,SHAL LOW RESPIRATION,WEAK IRREGULAR PULSE,UNCONSCIOUSNESS,DEATH.METHANOL COMPONENT AFFECTS OPTIC NERVE & MAY CAUSE BLINDNESS.

======= Physical/Chemic

HCC:F6 NRC/State Lic Num:NOT RELEVANT Boiling Pt:=96.1C, 205.F Melt/Freeze Pt:=-15.C, 5.F Vapor Density:1.04 Spec Gravity:1.08 Solubility in Water:COMPLETE Appearance and Odor:CLEAR,COLORLESS LIQUID. PUNGENT ODOR.

Stability Indicator/Materials to Avoid:YES OXIDIZERS,ALKALIES,PERCHLORIC ACID,NITROGEN DIOXIDE,NITROMETHANE,HYDROCHLORIC ACID. Stability Condition to Avoid:HEAT, IGNITION SOURCE S Hazardous Decomposition Products:CO

Waste Disposal Methods:COLLECT SPILLS & ATOMIZE IN A RCRA-APPROVED COMBUSTION CHAMBER.BEFORE ATOMIZING,DISSOLVE IN AN APPROPRIATE COMBUSTIBLE SOLVENT.WASTE CAN BE DISPOSED IN A RCRA APPROVED FACILITY.ENSURE COMPLIANCE W/LOC AL,STATE & FED REGS: CWA/CERCL RQ:1000 LBS.

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