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MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION -- FORMALDEHYDE SOLUTION, USP 6505-01-084-3055 Product ID:FORMALDEHYDE SOLUTION, USP MSDS Date:01/20/1988 FSC:6505 NIIN:01-084-3055 MSDS Number: BGKZK === 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 Е mergency Phone Num:314-982-5000 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 Rpt Q

ty:100 LBS

Ingred Name: METHYL ALCOHOL (METHANOL) (SARA III) CAS:67-56-1 RTECS #:PC1400000 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 CAS:7732-18-5 RTECS #: ZC0110000 Fraction by Wt: 48-53% LD50 LC50 Mixture:LD50 ORAL RAT=800MG./KG Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES Rep orts of Carcinogenicity: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, PAIN, BLURRED VISION, IRREVERSIBLE EYE DAMAGE;SKIN:REDNESS,PAIN,BURNS,DISCOLORATION,CRACKING,SCALING;SKIN ABS **ORPTION:SAME SYMPTOMS AS INGNITION;INHALATION:SORE** THROAT, COUGH, SHORT NESS OF BREATH, IRRITATION, SEVERE RESPIRATORY TRACT INJURY LEADING TO PULMONARY EDEMA & PNEUMONITIS-SEE SUPPLENTAL DATA-Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS, OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION

First Aid:EYES:WASH WITH PLENTY OF WATER FOR 15 MINUTES.SEE DOCTOR IMMEDIATE

LY;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.

Flash Point:140F(60C)
Autoignition Temp:Autoignition Temp Text:572F
Lower Limits:7.0
Upper Limits:73
Extinguishing Media:WATER SPRAY CAN BE USED T
O EXTINGUISHER FIRES &

COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR SCBA & PROTECTIVE CLOTHING. WATER MAY BE

USED TO FLUSH SPILLD & TO DILUTE SPILLS TO NON-FLAMMABLE MIXTURES.

Unusual Fire/Explosion Hazard:ABOVE FLASH POINT,VAP-AIR MIXTURES ARE

EXPLOSIVE WITHIN FLAMMABLE LIMITS; AUTO IGN TEMP:300C(572F)

Spill Release Procedures:WEAR SCBA & PROTECTIVE CLOTHING.REMOVE IGNITION SOURCES.VENTILATE.ABS ORB IN INERT MATERIAL & PLACE IN APPROPRIATE DISPOSAL CONTAINER.

 Handling and Storage Precautions:KEEP CONTAINERS CLOSED.PROTECT AGAINST PHYSICAL DAMAGE.OUTSIDE OR DETACHED STORAGE IS PREFERRED.INSIDE STORAGE SHOULD BE IN STD FLAMM.LIQ.STORAGE ROOM
 Other Precautions:SEPARATE FROM OXIDIZING MATERIALS.STORAGE & USE AREAS SHOULD BE NO SMOKING.

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

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espiratory Protection:WEAR A SUPPLIED AIR,FULL-FACEPIECE RESPIRATOR,AIRLINED HOOD,OR SCBA IF TLV IS EXCEEDED. Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV. Protective Gloves:IMPERVIOUS Eye Protection:GOGGLES/FACE SHIELD Other Protective Equipment:IMPERVIOUS PROTECTIVE CLOTHING,INCLUDING BOOTS,LAB COAT,APRON OR COVERALLS. SAFETY SHOWER & EYE WASH STATION. Work Hygienic Practices:WASH HANDS,FACE,FOREARMS & NECK WHEN EXITING RESTRICTED AREAS-SEE SUPPLEMENTAL DATA.

Supplemental Safe

ty 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.

HCC:F4 Boiling Pt:B.P. Text:C) Melt/Freeze Pt:M.P/F.P Text:5F(-15C) 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 SOURCES 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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