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## MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION -- FORMALDEHYDE -- 6505-00-664-0329

Product ID:FORMALDEHYDE

MSDS Date:01/20/1988

FSC:6505

NIIN:00-664-0329
MSDS Number: BFKJL
=== 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:314-982

-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

====== Composition/Information on Ingredients ========

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 Qty:100 LBS

Ingred Name:ME

THYL 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% ========== Hazards Identification =============== LD50 LC50 Mixture:LD50 ORAL RAT=800MG/KG Routes of Entry: Inhalation: NO Skin: YES Ingestion: YES Reports 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, PAINS, BLURRED VISION, IRREVERSIBLE EYE DAMAGE; SKIN: REDNESS, PAIN, BURNS, DISCOLORATION, CRACKING, SCALING; SKIN ABSORPTION: 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.

First Aid:EYES:WASH WITH PLENTY OF WATER FOR 15 MINUTES.SEE DOCTOR IMMEDIATELY;SKIN:FLUSH WITH PLENT

Y 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.

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

Flash Point:140F(60C)

Autoignition Temp: Autoignition Temp Text: 572F

Lower Limits:7.0 Upper Limits:73

Extinguishing Media:WATER SPRAY CAN BE USED TO EXTINGUISH FIRES & COO

FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR SCBA & PROTECTIVE CLOTHING. WATER MAY BE USED TO FLUSH SPILLS & 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)

======== Accidental Release Measures ===========

Spill Release Procedures:WEAR SCBA & PROTECTIVE CLOTHING.REMOVE IGNITION SOURCES.VENTILATE.ABSORB IN INERT MATERIAL & PL ACE IN

APPROPRIATE DISPOSAL CONTAINER.

============= Handling and Storage ==========================

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 ========

Respiratory 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 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/Chemical Properties ===========

HCC:F4

Boiling Pt:B.P. Text:205F(96C)

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 and Reactivity Data ==========

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

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

Waste Disposal Methods:COLLECT SPILLS & A TOMIZE 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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