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MALLINCKRODT INC., SCIENCE PRODUCTS DIVISION -- FORMALDEHYDE SOLUTION, USP

6505-01-084-3055

============= Product Identification ==================

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

F

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

======= 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

LI A RPI QIY. 100 LL

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 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.

============ 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 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)

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

Spill Release Procedures:WEAR SCBA & PROTECTIVE CLOTHING.REMOVE IGNITION SOURCES.VENTILATE.ABS

ORB IN INERT MATERIAL & PLACE 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 ========

R

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.

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

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 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 & 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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