View NSN Online: https://aerobasegroup.kr/nsn/6505-01-084-3055

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

ETA RPI QIY. 100 ED

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.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warr

ants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.