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Product ID:TETRAHYDROFURAN MSDS Date:04/06/1989 FSC:6810 NIIN:01-311-2543 MSDS Number: BPZWM === Responsible Party === Company Name:MALLINCKRODT INC Box:M City:PARIS State:KY ZIP:40361-0315 Country:US Info Phone Num:314-982-5000 Emergency Phone Num:314-982-5000 CAGE:1BF21 === Contractor Identification === Co mpany Name: MALLINCKRODT INC., SCIENCE PRODUCTS DIV Box:M City:PARIS State:KY ZIP:40361-0315 Country:US Phone:314-982-5000 CAGE:1BF21 Ingred Name: TETRAHYDROFURAN (SARA III) CAS:109-99-9 RTECS #:LU5950000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED

OSHA PEL:200 PPM/250 STEL ACGIH TLV:200 PPM/250STEL;9293

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

LD50 LC50 Mixture:LDLO ORAL RAT=3000MG/KG;PEL=200PPM(TWA) Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHAL:ANETHETIC,IRRITANT.INGEST:IRRITATING TO THE MUCOUS MEMBRANES.MAY CAN LIVER OR KIDNEY DAMAGE.SKIN: IRRITANT. EYES: IRRITANT. CHRONIC-NO DATA. Explanation of Carcinogenicity:RTECS(92-3) CITES MUTAGENIC STUDIES. Effects of Overexposure: INHAL: HEADACHE, IRRITATION OF THE NOSE AND THRAO T, DIZZINESS. INGEST: SORE THROAT AND ABDOMINAL PAIN. SKIN: REDENSS AND PAIN. Medical Cond Aggravated by Exposure: PRE-EXISTING SKIN OR EYE PROBLEMS, IMPAIRED LIVER OR KIDNEY FUNCTIONS. First Aid:INHAL:REMOVE TO FRESH AIR.RESTORE OR ASSIST BREATHING IF NEEDED.CALL PHYSICIAN.INGEST:GET IMMEDIATE MEDICAL HELP.IF NOT AVAILABLE(AND CONSCIOUS), GIVE 2 GLASSES OF WATER, INDUCE VOMITING WITH FINGER DOW N THOAT (KEEP HEAD L OWER THAN HIPS).SKIN:REMOVE CONTAMINATED CLOTHING.FLUSH WITH WATER FOR 15 MINUTES.EYES:FLUSH WITH WATER, HOLDING LIDS OPENED. GET IMMEDIATE MEDICAL HELP. Flash Point Method:COC Flash Point:6F.-14C Autoignition Temp: Autoignition Temp Text: 610F Lower Limits:1.8 Upper Limits:11.8 Extinguishing Media: DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER SPRAY CAN BE USED TO COOL FIRE EXPOSED CONTAINERS. Fire Fighting Procedures:USE FULL PROTECTIVE CLOTHING AND A SCBA IN POSITIVE PRESSURE MODE.USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS. Unusual Fire/Explosion Hazard: EXPLOSIVE ORGANIC PEROXIDES FORM FROM AGING OR LIGHT. VAPOR CAN TRAVEL DISTANCES ALONG THE FLOOR AND FLASH BACK TO THE IGNITION SOURCE. 

Spill Release Procedures: VENTILATE AREA.REMOVE SOURCES OF IGNITION.USE PROTECTIVE CLOTHING AND RESPIRATOR.USE NON-SPARKING EQUIPM ENT.ADBSORB LIQUID WITH VERMICULITE, DRY SAND...PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL. Neutralizing Agent:NOT APPLICABLE.

Handling and Storage Precautions: KEEP CONTAINER CLOSED, AWAY FROM LIGHT, HEAT AND OXIDIZERS. Other Precautions: NONE.

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

Respiratory Protection:1-FULL FACEPIECE WITH CHEMICAL CARTRIDGE RESPIRATOR.2-SCBA WITH FULL FACEPIECE O
R AIR-LINED HOOD.
Ventilation:LOCAL(PREFERRED,BECAUSE IT CAN CONTROL THE EMISION OF CONTAMINANTS) AND/OR GENERAL(MECHANICAL) EXHAUST.
Protective Gloves:RUBBER OR NEOPRENE
Eye Protection:SAFETY GOGGLES AND/OR SPLASH SHIELD
Other Protective Equipment:IMPERVIOUS BOOTS,APRON,COVERALLS.EYE WASH STATION AND QUICK DRENCH SHOWER SHOULD BE AVAILABLE.
Work Hygienic Practices:DO NOT WEAR CONTACT LENSES.WASH HANDS.KEEP FOOD OUT OF THE WORK AREA.USE PRUDENT HYGENIC AND SANITARY PRACTICES.

Supplem ental Safety and Health NONE.

HCC:F2 Boiling Pt:B.P. Text:151F,66C Vapor Pres:114MM 259F Vapor Density:2.5 Spec Gravity:0.88 Evaporation Rate & amp; Reference:14.5 Solubility in Water:MISCIBLE Appearance and Odor:LIQUID,MOBILE;COLORLESS;ETHER-LIKE ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES OXYGEN. Stability Condition to A void:LIGHT.KEEP CONTAINERS CLOSED;CONCENTRATION OF PEROXIDES (BY DISTILLATION,EVAPORATION) CREATES EXPLOSION HAZARD.

Hazardous Decomposition Products: IRRITATING AND TOXIC FUMES(EG. CARBON MONOXIDE).

## Waste Disposal Methods:COLLECT AS HAZARDOUS WASTE,LABEL AND DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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