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MALLINCKRODT INC -- TETRACHLOROETHYLENE -- 6810-01-038-8457

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

Product ID:TETRACHLOROETHYLENE

MSDS Date:04/06/1989

FSC:6810

NIIN:01-038-8457

MSDS Number: BLWCS === Responsible Party ===

Company Name: MALLINCKRODT INC

Box:M City:PARIS State:KY ZIP:40361

Country:US

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-5000

CAGE:62910

=== Contractor Identification ==

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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:ETHYLENE, TETRACHLORO-; (TETRACHLOROETHYLENE)

CAS:127-18-4

RTECS #:KX3850000 OSHA PEL:100 PPM

ACGIH TLV:25PPM/100,A3 STEL;94

EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name: SUPP DATA: DISPOSE IN A RCRA APPROVED FACILITY. DO NOT

FLUSH TO SEWER.

RTE

Ingred Name:OTHER PREC: SUBJECT TO ANNUAL RELEASE REPORTING REQUIREMENTS LISTED AT 40 CFR 372.65.
RTECS #:9999999ZZ

Ingred Name:RESP PROT: FACEPIECE RESPIRATOR OR AIRLINED HOOD MAY BE WORN.

RTECS #:9999999ZZ

Ingred Name: VENT: IT CAN CTL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PVNTG DISPERSION OF IT INTO THE GEN WORK AREA. (ING 6) RTECS #:9999992Z

Ingred Name:ING 5: REFER TO ACGIH DOCUMENT,"INDUSTRIAL VENT, A MANUAL OF RECOMMENDED PRACTICES", MOST RECEN T EDITION, FOR DETAILS.
RTECS #:9999992Z

========= Hazards Identification ==============

LD50 LC50 Mixture:LD50: ORAL (RAT) = 8850 MG/KG.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHAL: IRRIT TO UPPER RESP TRACT. GIDD/ HDACH/INTOXICATION/NAUS/VOMIT MAY FOLLOW THE INHAL OF LGE AMTS WHILE MASSIVE AMTS CAN CAUSE BRTHG ARREST/DEATH. CONCS OF 600 PPM & MO

RE MAY AFFECT THE CN S AFTER A FEW MIN. INGEST: NOT HIGHLY TOXIC BY THIS RTE BECAUSE OF LOW WATER SOLUBILITY. USED AS AN (EFT OF OVEREXP)

Explanation of Carcinogenicity: TETRACHLOROETHYLENE: GROUP 2B (IARC); GROUP 2 (NTP).

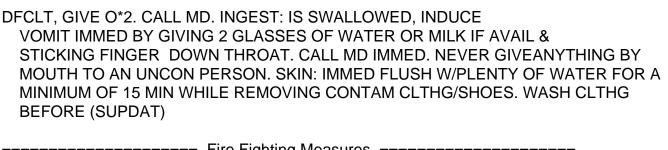
Effects of Overexposure:HLTH HAZ: ORL DOSAGE FOR HOOKWORM (1-4ML). MAY CAUSE ABDOM PAIN/NAUS/DIARR/HDACH/DIZZ. SKIN: PRLNG/RPTD CONT MAY PRDCE IRRIT/DERMAT DUE TO DEFAT THE SKIN. SORENESS/SKIN FLAKING CAN OCCUR. EYE: PAIN/TE ARING WILL BE EXPERIENCED AFT

ER CONT W/LIQUID

SOLV OR STRONG CONCS OF VAPS. CHRONIC: MAY CAUSE LIVER/KIDNEY OR (SUPDAT)

Medical Cond Aggravated by Exposure:PERSONS W/PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED KIDNEY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFTS OF THE SUBSTANCE. USE OF ALCOHOLIC BEVERAGES ENHANCES THE TOXIC EFTS OF EXPOSURE.

First Aid:INHAL: REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP. IF BRTHG IS



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

- Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTING SURROUND FIRE. THERMO
- -OXIDATIVE RXNS CAN PRDCE HIGHLY TOX PHOSGENE/HYDROGEN CHLORIDE.
- Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT.
- Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE FIRE HAZ BUT BECOMES HAZ IN FIRE SITUATION BECAUSE OF VAP GENERATION & POSS DEGRADATION TO PHOSGENE (HIGHLY TOX)/HYDROGEN CHLORIDE (CORR).

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

- Spill Release Procedures:CLEAN-UP PERS REQ PROT CLTHG/RESP PROT FROM V
- APS. CONTAIN/RECOVER LIQ WHEN POSS. CHLORINATED SOLVENTS IN LGE AMTS SHLD BE BURNED IN AN APPRVD INCINERATOR W/APPROP SCRUBBERS. ALTERNATIVELY, ABSORB W/VE RMICULITE, DRY SAND, EARTH, OR SIMILAR (SUPDAT)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, DRY, VENTILATED AREA AWAY FROM SOURCES OF HEAT OR IGNITION. ISOLATE FROM FLAMMABLE MATERIALS. PROTECT FROM

DIRECT SUNLIGHT.

Other Precautions:NO SMOKING IN AREA OF USE. DO NOT USE IN THE GENERAL VICINITY OF ARC WELDING, OPEN FLAMES OR HOT SURFACES. HEAT AND/OR UV RADIATION MAY CAUSE THE FORMATION OF HCL AND/OR PHOSGENE. THIS MATL CONTAINS TOXIC SUBSTANCES. (ING 3)

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

Respiratory Protection:IF TLV EXCEEDED, NIOSH/MSHA APPRVD FULL FACEPIECE CHEM CARTRIDGE RESPIRATOR MAY BE WORN, IN GEN, UP TO 100 X TLV OR THE MAX

USE CONC SPECIFIED BY RESP SUPPLIER, WHICHEVER IS LESS. ALTERNATIVELY, NIOSH /MSHA APPRVD SUPPLIED AIR FULL (ING 4) Ventilation:LOC &/OR GEN EXHST IS RECOM TO KEEP EXPOS BELOW AIRBORNE EXPOS LIMITS. LOC EXHST VENT IS GENERALLY PREF BECAUSE (ING 5) Protective Gloves: IMPERVIOUS GLOVES. Eye Protection: CHEMICAL WORKERS GOGGLES. Other Protective Equipment: CONT LENSES SHLD NOT BE WORN WHEN WORKING W/THIS MATL. MAINTAIN EYE WASH FOUNTAIN/QUICK-DRENCH FACILITIES IN WORK AREA. Work Hygie nic Practices:WASH THOROUGHLY AFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health EFTS OF OVEREXP: CNS DMG AFTER RPTD/PRLNG EXPOS. SUSPECTED CANCER RISK FROM ANIMAL STUDIES. FIRST AID PROC: REUSE. CALL MD IMMED. EYE: WASH W/PLENTY OF WATER FOR A MIN OF 15 MIN, LIFTING LOWER/UPPER E YELIDS OCCAS. GET MED ATTN IMMED. SPILLPROC: MATL. SCOOP UP W/NON-SPARKING TOOLS & PLACE IN A CLOSED CONTR, & (ING 2) ======== Physical/Chemical Prop erties ========= Boiling Pt:B.P. Text:>246F,119C Melt/Freeze Pt:M.P/F.P Text:-8F,-22C Vapor Pres:16 @ 22C Vapor Density:5.83 Evaporation Rate & Reference: 0.27 (CC1*4=1) Solubility in Water: 0.015G/100G OF H*2O Appearance and Odor: CLEAR, COLORLESS LIQUID - ETHEREAL ODOR. ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS, STRONG ALKALIES, ESPECIALLY NAOH, KOH; FINELY DIVIDED METALS, ESPECIALLY ZINC. tability Condition to Avoid: STABLE UNDER ORDINARY CONDITIONS OF USE

AND STORAGE.

Hazardous Decomposition Products:CO*2 AND CO MAY FORM WHEN HEATED TO DECOMPOSITION.

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

Waste Disposal Methods: ENSURE COMPLIANCE W/LOCAL, STATE, AND FEDERAL REGULATIONS. REPORTABLE QTY (CWA/CERCLA): 1 LB.

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