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Product ID:TETRACHLOROETHYLENE MSDS Date:04/06/1989 FSC:6810 NIIN:00-819-1128 MSDS Number: BMXJB === Responsible Party === Company Name: MALLINCKRODT INC SCIENCE PRODUCTS DIVISION Address: PARIS BYPASS Box:M City:PARIS State:KY ZIP:40361 Country:US Info Phone Num:314-982-5000 Emer gency 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

Ingred Name:PERCHLOROETHYLENE (TETRACHLOROETHYLENE) (SARA III) CAS:127-18-4 RTECS #:KX3850000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED OSHA PEL:100 PPM ACGIH TLV:25PPM/100,A3 STEL;94 E LD50 LC50 Mixture:ORAL LD50 (RAT) = 5000 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:ACUTE: MAY CAUSE EYE & SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CENTRAL NERVOUS SYSTEM DEPRESSANT. LOSS OF CONSCIOUSNESS AND EVEN DEATH CAN OCCUR AT HIGH LEVELS OF EXPO

SURE. CHRONIC:LI VER AND KIDNEY DAMAGE.

ASPIRATION HAZARD DO NOT INDUCE VOMITING. PROBABLE CANCER HAZARD. Explanation of Carcinogenicity:LISTED AS A CARCINOGEN BY NTP AND IARC. Effects of Overexposure:INCOORDINATION AND IMPAIRED JUDGMENT MAY OCCUR

AT VAPOR EXPOSURES FROM 500-1000 PPM. DIZZINESS, DROWSINESS, AND GENERAL ANESTETHIC EFFECTS MAY OCCUR IN RANGES OF 1000 PPM AND HIGHER.

Medical Cond Aggravated by Exposure:EYE/SKIN/RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY EXPOSUR

E. MAY CAUSE CANCER.

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL AT TENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER PROMPTLY. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR USP MINERAL OIL. GET IMMEDIATE MEDICAL ATTENTION.

Extinguishing Media:ANY MEDIA SUITABLE FOR SURROUNDING FIRES. Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS INCLUDING PHOSGENE AND HYDROGEN CHLORIDE.

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Spill Release Procedures:SMALL SPILL: WIPE UP WITH RAGS OR TOWELS. LARGE SPILLS: WEAR NIOSH APPROVED RESPIRATOR. VENTILATE AREA. DIKE TO RETAIN FLUID. PUMP UP FREE LIQUID. RESIDUE WILL EVAPORATE QUICKLY. DO NOT FLUSH TO SEWER OR WATERWAY. Neutralizing Agent:NONE

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM A

NY AREA WHERE THE FIRE HAZARD MAY BE ACUTE.

KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions:DO NOT USE WITH PRESSURIZED ALUMINUM SYSTEMS. READ AND FOLLOW DIRECTIONS ON LABEL. DO NOT REUSE CONTAINERS. AVOID WELDING, BRAZING, DRILLING, SOLDERING AND OTHER HIGH TEMPERATURE AND SPARK CONDITIONS AROUND THIS PRODUCT.

Respiratory Protection: IN HIGH VAPOR AREA, USE NIOSH APPROVED RESPIRATOR WITH ORGANIC

VAPOR CARTRIDGE. USE SELF-CONTAINED BREATHING APPARATUS IF ALLOWABLE VAPOR LEVELS ARE EXCEEDED OR WORKING IN A CONFINED AREA.

Ventilation:LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF TLV.

Protective Gloves: NEOPRENE, PVA GLOVES RECOMMENDED.

Eye Protection: USE CHEMICAL SAFETY GOGGLES.

Other Protective Equipment: APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED. Work Hygienic Practices: WASH THOROUGHLY AFTER USE AND BEFORE EATING, SMOKING OR USING TOILET FACILITIES. DO NOT BREATH VAPORS OR MIST. Supplemental Safety and Health TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES.

HCC:T4 Boiling Pt:B.P. Text:119F,48C Vapor Pres:16 Vapor Density:5.83 Spec Gravity:1.63 Evaporation Rate & amp; Reference:0.27 (CCL4=1) Solubility in Water:0.015% BY WT Appearance and Odor:CLEAR, COLORLESS LIQUID, EHTEREAL ODOR Percent Volatiles by Volume:100

====== Stabi

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS AND ALKALIS, ACTIVE METALS (SODIUM, POTASSIUM, LITHIUM, ZINC, ALUMINUM, BARIUM ETC.)

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES. HIGH PRESSURE ALUMINUM SYSTEMS.

Hazardous Decomposition Products:DECOMPOSES INTO HIGHLY TOXIC AND IRRITATING HYDROGEN CHLORIDE AND PHOSGENE.

Waste Disposal

Methods: CLEAN-UP DEBRIS WILL LIKELY BE A LAND-BANNED HAZARDOUS WASTE. DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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