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MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- TETRACHLOROETHYLENE

6750-01-308-9381

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

Product ID:TETRACHLOROETHYLENE

MSDS Date:04/06/1989

FSC:6750

NIIN:01-308-9381

MSDS Number: BPZMK === 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:314-982-5000/6

06-987-7000

Emergency Phone Num:314-982-5000

CAGE:62910

=== Contractor Identification ===

Company Name: MALLINCKRODT INC., SCIENCE PRODUCTS DIV

Box:M City:PARIS State:KY

ZIP:40361-0315 Country:US

Phone:314-982-5000

CAGE:1BF21

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:PERCHLOROETHYLENE (TETRACHLOROETH

YLENE) (SARA III) CAS:127-18-4 RTECS #:KX3850000

Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

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

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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EYE, SKIN AND RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS. HARMF

UL IF SWALLOWED.

CHRONIC: MAY CAUSE LIVER DAMAGE. SUSPECTED CARCINOGEN BY NTP. Explanation of Carcinogenicity: TETRACHLOROETHYLENE IS A SUSPECTED CARCINOGEN BY NTP.

Effects of Overexposure: EYES: IRRITATION. SKIN: IRRITATION. INHALATION: RESPIRATORY TRACT IRRITATION, HEADACHE, DIZZINESS. INGESTION: GASTROINTESTINAL IRRITATION, NAUSEA, HEADACHE, DIZZINESS.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RI SK FROM

EXPOSURE.

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEE DOCTOR. SKIN: WASH WITH SOAP AND WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEE DOCTOR. INHALATION: REMOVE VICTIM TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR.INGESTION: GIVE 2 GLASSES OF WATER OR MILK. INDUCE VOMITING. SEE DOCTOR. NOTHING BY MOUTH IF UNCONSCIOUS.

	======	Fire Fi	
ghting Measures	======	======	=====

Extinguishing Media: NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS SUCH AS PHOSGENE (HIGHLY TOXIC) AND HYDROGEN CHLORIDE (CORROSIVE).

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==== Accidental Release Measures =========
Spill Release Procedures:REMOVE PERSONNEL. VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB IN INERT MATERIAL AND PLACE IN APPROPIATE DISPOSAL CONTAINER AND COVER. DO NOT FLUSH TO SEWER.
============= Handling and Storage =============
Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT, FLAMES AND INCOMPATIBLE MATERIALS. KEEP CO NTAINERS CLOSED.
Other Precautions: AVOID EYE AND SKIN CONTACT. DO NOT BREATHE VAPORS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NONE NORMALLY REQUIRED WITH ADEQUATE VENTILATION. NIOSH/MSHA-APPROVED RESPIRATOR OR SCBA AS APPROPIATE FOR EXPOSURE OF CONCERN.  Ventilation:MECHANICAL (GENERAL) VENTILATION OR LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE LEVELS BELOW PEL.  Protective Gloves:RUBBER GLOVES.  Eye Protection:CHEMICAL SAFETY GOGGLES.
Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT. EYE BATH AND SAFETY SHOWER.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health NONE.
========== Physical/Chemical Properties ===========
HCC:T4 Boiling Pt:B.P. Text:246F,119C Melt/Freeze Pt:M.P/F.P Text:-8F,-22C

Vapor Pres:16 Vapor Density:5.83 Spec Grav

ty:1.63
Evaporation Rate & Reference:0.27 (CCL4 = 1)
Solubility in Water:NEGLIGIBLE
Appearance and Odor:CLEAR, COLORLESS LIQUID. ETHEREAL ODOR.
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Distribution to Provide Alexander to Associate to Associa
Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, STRONG ALKALIES, ESPECIALLY NAOH, KOH, FINELY
DIVIDED METALS, ESPECIALLY ZINC.
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
INCOMPL
ETELY BURNED CARBON PRODUCTS.

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

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL
REGULATIONS. MANUFACTURER RECOMMENDS BURNING IN AN APPROVED INCINERATOR WITH APPROPIATE SCRUBBERS.

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