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MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- TETRACHLORIDE ETHYLENE (TETRACHLOROETHENE) -- 6810-01-013-2541

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

Product ID:TETRACHLORIDE ETHYLENE (TETRACHLOROETHENE)

MSDS Date:04/06/1995

FSC:6810

NIIN:01-013-2541

MSDS Number: BQGQT === Responsible Party ===

Company Name: MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M City:PARIS State:KY ZIP:4 0361

Country:US

Info Phone Num:314-539-1600

Emergency Phone Num:314-539-1600/314-982-5000

CAGE:62910

=== Contractor Identification ===
Company Name:ATLAS CHEMICAL

Box:UNKNOW CAGE:6D478

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 (TETRACHLOROETHYLENE) (SARA III)

CAS:127-18-4 RTECS #: KX3850000

Fraction by Wt: 100% OSHA PEL:100 PPM

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

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

=========== 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:TETRACHLOROETHYLENE IS IRRITATING TO BODY TISSUES. IT PRODUCES DERMATITIS VIA DEFATTING AND INHALATION PRODU

CES SYMPTOMS OF INTOXICATION. IT IS OF LOW ORAL TOXICITY DUE TO ITS INSOLUBILITY. CHRONIC O VEREXPOSURE MAY CAUSE LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM DAMAGE.

Explanation of Carcinogenicity:TETRACHLOROETHYLENE IS LISTED AS A CARCINOGEN BY NTP & IARC. SEE INDIVIDUAL REPORTS FOR DETAILS.

Effects of Overexposure:EYE:PAIN, TEARING. SKIN:DEFATTING AND DRYING, LEADING TO DERMATITIS. INHALED:RESPIRATORY IRRITATION, GIDDINESS, HEADACHE, INTOXICATION, NAUSEA, VOMITING. INGESTED:A BDOMINAL PAIN,

NAUSEA, HEADACHE, DIZZINESS.

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

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. WASH WITH SOAP &

WATER. INHALED:REMOVE TO FRESH AIR. RESTORE/AID BREATHING AS NEEDED. INGESTED:IMM EDIATELY GIVE 2 LARGE GLASSES OF MILK OR WATER AND INDUCE VOMITING. (NOTHING BY MOUTH IF UNCONSCIOUS.) GET IMMEDIATE MEDICAL CARE. IF ANY IRRITATION PERSISTS OR IS SEVERE, SEE A DOCTOR.

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

Flash Point:NON-FLAMMABLE
Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

Fire Fighting Procedures: WEAR NIOS

H APPROVED PRESSURE DEMAND SCBA & FULL PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD.
THERMO-OXIDATIVE REACTIONS CAN PRODUCE HIGHLY TOXIC PHOSGENE OR HYDROGEN CHLORIDE.

Spill Release Procedures:WEAR PROTECTIVE CLOTHING & RESPIRATORY PROTECTION. CONTAIN & RECOVER LIQUID WHEN POSSIBLE. ALTERNATIVELY, ABSORB W/VERMICULITE, DRY SAND, EARTH, SIMILAR MATERIAL. SCOOP INTO

CONTAINERS FOR DISPOSAL. DO NOT FLUSH TO SEWER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, DRY, VENT AREA AWAY FROM SOURCES OF HEAT/IGNITION. ISOLATE FROM FLAMMABLE MATERIALS. PROTECT FROM DIRECT SUNLIGHT.

Other Precautions: NONE

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

Respiratory Protection:IF TLV EXCEEDED,FULL FACEPIECE CHE M CARTRIDGE

RESPIRATOR MAY BE WORN UP TO 100X TLV. ALTERNATIVELY, SUPPLIED AIR FULL FACEPIECE RESPIRATOR OR AIRLINED HOOD MAY BE WORN.

Ventilation:SYSTEM OF LOCAL &/OR GENERAL EXHAUST RECOMMENDED TO KEEP EXPOS BELOW AIRBORNE EXPOSURE LIMIT.

Protective Gloves:PROTECTIVE GLOVES

Eve Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment:BODY-COVERING CLOTHING. MAINTAIN EYE WASH FOUNTAIN & QUICK-DRENCH FACILITIES IN WORK AREA.

Work Hygienic Practices:MFR: ? HMIS:USE GOOD CHEMI

CAL HYGIENE

PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

KEY2:KT MSDS RECEIVED FROM NAVY (FOCAL POINT N). CAGE CODE AND NSN IDENTIFIED BY THEM.

======== Physical/Chemical Properties ==========

HCC:T4

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:>246F,>119C Melt/Freeze Pt:M.P/F.P Text:-8F,-22C

Vapor Pres:16 MM Vapor Density:5.83 Spec Gravity:1.63

Evaporation Rate & Description Rate & Reference: (CCL4=1) 0.27

Solu

oility in Water:0.015 G/100 G WATER 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.
Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.
Hazardous Decomposition Products:CO2 AND CO MAY FORM WHEN HEATED TO DECOMPOSITION.
Conditions to Avo
d Polymerization:THIS SUBSTANCE DOES NOT POLYMERIZE.
========== Disposal Considerations ===============

Waste Disposal Methods:BURN IN APPROVED INCINERATOR WITH APPROPRIATE SCRUBBER. ENSURE COMPLIANCE W/LOCAL, STATE AND FEDERAL REGULATIONS.

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