

MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION -- CHLOROFORM -- 6810-00-063-6164

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Product Identification  
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Product ID:CHLOROFORM

MSDS Date:11/14/1985

FSC:6810

NIIN:00-063-6164

MSDS Number: BCWXM

=== Responsible Party ===

Company Name:MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Info Phone Num:314-982-5000

Emergency Phone Num:314-982-50

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Preparer's Name:NOT PROVIDED

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

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Composition/Information on Ingredients  
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Ingred Name:CHLOROFORM (SARA III)

CAS:67-66-3

RTECS #:FS9100000

Fraction by Wt: >99%

Other REC Limits:NONE

OSHA PEL:(C) 50 PPM

ACGIH TLV:10 PPM; A2; 9293

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

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Hazards Identification  
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LD50 LC50 Mixture:LD50 ORAL RAT=908MG/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:SEE SIGNS & SYMPTOMS OF

OVEREXPOSURE. CHRONIC:PROLONGED OR REPEATED EXPOSURE TO VAPORS MAY CAUSE DAMAGE TO LIVER AND KIDNEYS.CONTACT WITH LIQUID MAY HAVE DEFATTING EFFECT AND CHRONIC SKIN IRRITATION WITH CRACKING & DRYING

AND CORRESPONDING DERMATITIS.MAY CAUSE TUMOR FORMATION.

Explanation of Carcinogenicity:CHLOROFORM IS SUSPECTED BY NTP AND IARC TO BE CARCINOGENIC.

Effects of Overexposure:EYES:PAIN AND IRRITATION OF CONJUNCTIVA;

SKIN:IRRITATION,REDNESS,PAIN.REMOVES NATURAL OILS;INHALATION:POTENT ANESTHETIC,IRRITATES RESPIRATORY TRACT AND MAY CAUSE

HEADACHE,DROWSINESS, VOMITING,DIZZINESS,AND UNCONSCIOUSNESS.HEART ARRHYTHMIA,KIDNEY & LIVER DISORDER,DEATH;INGESTION:SEVERE BURNING,CHEST PAIN,

VOMIT,UNCONSCIOUS

Medical Conditions Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN

DISORDERS OR EYE PROBLEMS,OR IMPAIRED LIVER,KIDNEY OR RESPIRATORY FUNCTION.

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First Aid Measures  
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First Aid:INHAL:REMOVE TO FRESH AIR.GIVE CPR/OXYGEN IF NEEDED;INGEST:IF

SWALLOWED,GIVE TWO GLASSES OF WATER & INDUCE VOMIT.NOTHING BY MOUTH IF UNCON;SKIN/EYE EXPOSURE:RMV CONTAMINATED CLOTHING.WASH SKIN W/SOAP & H2O. FLUSH SKIN/EYES W/LG H2O;GET MEDICAL HELP IMMEDIATELY

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Fire Fighting Measures  
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Flash Point:NONE

Extinguishing Media:EXTINGUISH W. AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS,APPLY WATER SPRAY TO COOL CONTAINER.

Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD; SLIGHT FIRE HAZARD WHEN EXPOSED TO HIGH HEAT.

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Accidental Release Measures  
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Spill Release Procedures:ELIMINATE IGNITION SOURCES,VENTILATE & EVACUATE AREA

REA.USE PROTCV

CLOTHG/RESP PROTCTION FM VAP.CONTAIN & RECOVR LIQ IF POSS.ABSORB W/ VRMCULITE,EARTH,ETC.SCOOP UP W/NON-SPARKG TOOLS & PLACE IN CLOSD CONTNRS. USE H2O SPRA Y TO DISPERSE VAP/COOL CNTNR.DO NOT FLUSH TO SEWR

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

Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTANRS AT COOL,DRY, VENTILATED PLACE.PROTECT AGAINST PHY DAMAGE.

Other Precautions:AVOID BREATHING VAPS.USE W/ADEQUATE VENTILATION.K EEP

CONTAINERS CLOSED.WASH THOROUGHLY AFTER HANDLING.AVOID SKIN,EYES & CLOTHING CONTACT;DANGER!MAY BE FATAL IF SWALLOWED,INHALED/ABSORBD BYSKIN

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

Respiratory Protection:SUPPLIED AIR RESPIR/SCBA; ESCAPE: GAS MASK

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:IMPERVIOUS

Eye Protection:GOGGLES/FACE SHIELD

Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE WASH STATION

Work Hygie

nic Practices:WASH THOROUGHLY AFTER HANDLING.REMOVE AND LAUNDER CONTAMINATED CLOTHING.

Supplemental Safety and Health

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

HCC:T4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=61.1C, 142.F

Melt/Freeze Pt:=-63.3C, -82.F

Vapor Pres:100

Vapor Density:4.1

Spec Gravity:1.49

Evaporation Rate & Reference:11.6(BU-AC=1)

Solubility in Water:0.8%

Appearance and Odor:CLEAR COLORLESS LIQ.HEAVY ETHEREAL ODOR

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

STRONG CAUSTICS, CHEM. ACTIVE METALS, AL, K, MG, NA; ACETONE,  
FLUORINE, METHANOL, NA METHOXIDE, DINITROGEN TETROXIDE, TERT-BUTOXIDE

Stability Condition to Avoid: PREVENT EXPOSURE TO AIR AND LIGHT (FORM  
PHOSGENE & HCL GASES)

Hazardous Decomposition Products: HCL, CL<sub>2</sub>, PHOSGENE, & CO GASES WHEN  
HEATED TO DECOMPOSITION.

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

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Disposal Methods: SPILLS & LOT SIZES MAY BE COLLECTED & ATOMIZED IN  
RCRA APPROVED COMBUSTION CHAMBER EQUIPPED WITH EFFLUENT GASES CLEANING  
DEVICE, OR ABSORBED IN ABSORBENT & DISPOSED IN RCRA APPROVED  
FACILITY. ENSURE COMPLIANCE WITH LOCAL, STATE & FEDERAL REGS; RCRA/CWA  
RQ: 5000 LBS.

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