

MALLINCKRODT INC SCIENCE PRODUCTS DIVISION -- CHLOROFORM -- 6810-00-063-6164
===== Product Identification =====

Product ID:CHLOROFORM
MSDS Date:10/27/1989
FSC:6810
NIIN:00-063-6164
MSDS Number: BPWWL
=== 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:606-987-7000
Emergency Phone Num:6
06-987-7000
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

===== Composition/Information on Ingredients =====

Ingred Name:CHLOROFORM (SARA III)
CAS:67-66-3
RTECS #:FS9100000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
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 =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 908 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:INHALATION-ACTS AS A RELATIVELY POTENT ANESTHETIC. IRRITATES RESPIRATORY TRACT. PROLONGED OR REPEATED EXPOSURE MAY LEAD TO DEATH DUE TO HEART ARRHYTHMIAS & KIDNEY & LIVER DISORDERS. SKIN MAY CAUSE SKIN IRRITATION.

Explanation of Carcinogenicity:THIS COMPOUND IS SUSPECTED TO BE A HUMAN CARCINOGENS BY NTP AND IARC.

Effects of Overexposure:INHALATION-MAY CAUSE HEADACHE, DROWSINESS, VOMITING, DIZZINESS, & UNCONSCIOUSNESS. INGESTION-CAUSES SEVERE BURNING IN MOUTH & THROAT, PAIN IN THE CHEST & VOMITING. LOSS OF CONSCIOUSNESS. SKIN-REDNESS & PAIN. REMOVE NATURAL OILS. EYE-CAUSES PAIN & IRRITATION OF CONJUNCTIVA. MAY CAUSE TUMOR FORMATION.

Medical Cond Aggravated by Exposure:P

PERSONS WITH PRE-EXISTING SKIN

DISORDERS OR EYE PROBLEMS, OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

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===== First Aid Measures =====

First Aid:IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS HARD, GIVE OXYGEN. IF SWALLOWED, IF CONSCIOUS, INDUCE VOMITING & REPEAT UNTIL VOMIT FLUID IS CLEAR. CALL A PHYSICIAN. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYE OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MIN. CALL PHYSICIAN. IN ALL CASES CALL A PHYSICIAN.

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

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

Fire Fighting Procedures:IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING & NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND.

Unusual Fire/Explosion Hazards

rd:NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

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

Spill Release Procedures:VENTILATE AREA OF LEAK OR SPILL. REMOVE ALL SOURCES OF IGNITION. CLEAN-UP PERSONNEL REQUIRE PROTECTIVE CLOTHING & RESPIRATORY PROTECTION FROM VAPORS. CONTAIN & RECOVER LIQUID WHEN POSSIBLE. COLLECT AS HAZARDOUS WASTE & ATOMIZE IN COMBUSTION CHAMBER.

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

Handling and Storage Pr

ecautions:KEEP IN TIGHTLY CLOSED CONTAINER.

PROTECT FROM PHYSICAL DAMAGE. STORE IN A COOL, DRY, VENTILATED AREA AWAY FROM HEAT SOURCES, MOISTURE & INCOMPATIBLES

Other Precautions:AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

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

Respiratory Protection:IF THE TLV IS EXCEEDED, WEAR A SUPPLIED AIR, FULL-FACEPIECE RESPIRATOR. AIRLINE HOOD OR SELF-CONTAINED BREATHING APPARATUS.

Ventilation:LOCAL AND MECHANICAL(GENERAL) EXHAUST IS RECOMMENDED TO

KEEP EMPLOYEE EXPOSURE BELOW THE AIRBORNE EXPOSURE LIMITS.

Protective Gloves:WEAR IMPERVIOUS GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES/FULL FACE SHIELD

Other Protective Equipment:WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS TO PREVENT SKIN CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

MAINTAIN EYE WASH FOUNTAIN AND QUI

CK DRENCH FACILITIES IN WORK AREA.

CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.

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

HCC:T4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=61.1C, 142.F

Melt/Freeze Pt:=-62.6C, -81.F

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:100

Vapor Density:4.1

Spec Gravity:1.49

Solubility in Water:0.8G/100G WATER

Appearance and Odor:CLEAR COLORLESS LIQUID; CHARACTERISTIC, ETHEREAL ODOR.

===== Stabili

Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

STRONG CAUSTICS & CHEMICALLY ACTIVE METALS SUCH AS ALUMINUM. MAGNESIUM POWDER, SODIUM OR POTASSIUM; ACETONE, FLUORINE.

Stability Condition to Avoid: OPEN FLAMES, EXCESS WATER.

Hazardous Decomposition Products: TOXIC GASES & VAPORS SUCH AS HYDROGEN CHLORIDE, CHLORINE, PHOSGENES & CARBON MONOXIDE MAY BE RELEASED UPON HEATING.

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

Waste Disposal Methods:

OR ABSORB WITH VERMICULITE, DRY SAND, EARTH OR SIMILAR MATERIAL FOR DISPOSAL AS HAZARDOUS WASTE IN A RCRA APPROVED FACILITY. DO NOT FLUSH TO SEWER! REPORTABLE QUANTITY: 10 LBS. ENSURE COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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