

MALLINCKRODT INC SCIENCE PRODUCTS DIVISION -- CHLOROFORM -- 6810-00-982-0733

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

Product ID:CHLOROFORM

MSDS Date:10/27/1989

FSC:6810

NIIN:00-982-0733

MSDS Number: BPWYG

=== 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

:606-987-7000

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 RELITELY POTENT ANESTHETIC. IRRITATES RESPIRATORY TRACT. PROLONGED OR REPEATED EXPOSURE MAY LEAD TO DEATH DUE TO HEART ARRHYTHMIAS & KIDNEY & LIVER DISORDERS. SKIN0MAY CAUSE SKI N 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-CAUSESPAIN & IRRITATION OF CONJUNCTIVA. MAY CAUSE TUMOR FORMATION.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SK IN

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

===== **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 O

R SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MIN. CALL PHYSICIAN. IN ALL CASES CALL A PHYSICIAN.

===== **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 Hazard: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 Precautions: 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 QUICK DRENCH FACILITIES IN WORK AREA.

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

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

HCC: T3

Boiling Pt: B.P. Text: 142F, 61C

Melt/Freeze Pt: M.P/F.P Text: -81F, -63C

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.

===== 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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