

MALLINCKRODT INC. SCIENCE PRODUCTS DIVISION -- DICHLOROMETHANE -- 6810-00-058-6991
===== Product Identification =====

Product ID: DICHLOROMETHANE

MSDS Date: 04/06/1989

FSC: 6810

NIIN: 00-058-6991

MSDS Number: BMWFT

=== 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: 800-354-2050(PRESS 3)/

314-982-5000

Emergency Phone Num: 800-354-2050/314-539-1600

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: METHYLENE CHLORIDE (SARA III) *

CAS: 75-09-2

RTECS #: PA8050000

Fraction by Wt: 100%

Other REC Limits: NONE

OSHA PEL: 500 PPM/C, 1000; Z2 *

ACGIH TLV: 50 PPM, A

2; 9192 *

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 2524 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE-INHALE:MAY CAUSE

IRRITATION,LIVER INJURY,BLOOD DISORDERS,NARCOSIS,MENTAL

CONFUSION,NAUSEA,VOMITING,HEADACHE,CNS DEPRESSION,UNCONSCIOUSNESS &
EVEN DEATH.ORAL:CAN BE

ABSORBED & CAUSE SYMPTOMS SIMILAR TO

INHALATION.EYE/SKIN:IRRITATION,DEFATTING SKIN.CHRONIC-CAN CAUSE
HEADACHE,MENTAL DEPRESSION & CONFUSION,DERMATITIS

Effects of Overexposure:INHALATION MAY CAUSE IRRITATION, LIVER INJURY,
BLOOD DISORDERS, NARCOSIS, MENTAL CONFUSION, NAUSEA, VOMITING,
HEADACHE, CNS DEPRESSION, UNCONSCIOUSNESS & EVEN DEATH. ORALLY CAN
BE ABSORBED & CAUSE SYMPTOMS SIMILAR TO INHALATION. CAN CAUSE
EYE/SKIN IRRITATION, DEFATTING SKIN.

Medical Cond Aggravated

by Exposure:PERSONS WITH PRE-EXISTING SKIN

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

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

First Aid:GET MEDICAL ATTENTION IMMEDIATELY.EYE/SKIN:IMMEDIATELY FLUSH
WITH WATER FOR AT LEAST 15 MINUTES.HOLD EYELIDS OPEN.INHALED:REMOVE
TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.ORAL:IF
CONSCIOUS,INDUCE VOMITING BY DRINKING TWO GLASSES OF WATERAND

STICKING FINGER DOWN THROAT.CALL A PHYSICIAN IMMEDIATELY.NEVER GIVE
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:1033F

Extinguishing Media:CO2, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO
KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS AWAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPR

OVED SELF-CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:NO EXPLOSION HAZARD UNDER ORDINARY
CONDITIONS, BUT WILL FORM EXPLOSIVE MIXTURES IN ATMOSPHERES HAVING
HIGH OXYGEN CONTENT, IN LIQUID OXYGEN,NITROGEN OXIDE.

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

Spill Release Procedures:EVACUATE PERSONNEL. WEAR PROPER PROTECTIVE
CLOTHING AND EQUIPMENTS. VENTILATE AREA. STOP LEAK IF POSSIB
LE.

CONTAIN SPILL. ABSORB WITH VERMICULITE,DRY SAND OR SIMILAR MATERIAL
AND PLACE IN APPROPRIATE DISPOSAL CONTAINER.DO NOT FLUSH TO SEWER.

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

Handling and Storage Precautions:STORAGE-STORE IN COOL,DRY,WELL
VENTILATED PLACE,AWAY FROM INCOMPATIBLE MATERIALS.KEEP CONTAINERS
CLOSED WHEN NOT IN USE.

Other Precautions:UNDER NORMAL CONDITIONS, STORE IN GALVANIZED IRON,
BLACK IRON OR STEEL. ALUMINUM IS NOT RECOMMENDE

D. OUTSIDE/DETACHED

GARAGE IS RECOMMENDED. ISOLATE FROM SOURCE OF HEAT OR IGNITION.
SHOWER, CHANGE TO CLEAN GARMENTS AT THE END OF THE DAY.

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

Respiratory Protection:IF THE TLV IS EXCEEDED, A HALF MASK CHEMICAL
CARTRIDGE RESPIRATOR MAY BE WORN UP TO TEN TIMES THE TLV OR THE
MAXIMUM USE CONCENTRATION OF THE MASK, WHICHEVER IS LESS.

Ventilation:LOCAL EXHAUST AND/OR MECHANICAL (GENERAL) VENTILATION AS
REQUIRED T

O KEEP CONCENTRATIONS BELOW OSHA PEL.

Protective Gloves:PVA.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING AS NEEDED TO PREVENT
PROLONGED/REPEATED SKIN CONTACT,EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:AVOID CONTACT WITH EYES, SKIN OR CLOTHING. DO
NOT BREATHE VAPORS. DO NOT WEAR CONTACT LENSES WHILE WORKING WITH
MATERIAL

Supplemental Safety and Health

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

HCC:

T4

Boiling Pt:B.P. Text:104F,40C

Melt/Freeze Pt:M.P/F.P Text:-142F,-97C

Vapor Pres:350 @ 68 F

Vapor Density:2.9

Spec Gravity:1.3

Evaporation Rate & Reference:27.5 (N-BUTYL ACETATE=1)

Solubility in Water:1.32 G% @ 68 F

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH A CHLOROFORM-LIKE ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS AND CAUSTICS.CHEMICALLY ACTIVE METALS SUCH A
S

ALUMINUM,MAGNESIUM POWDERS,SODIUM,POTASSIUM,LITHIUM

Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE
AND STORAGE. AVOID CONTACT WITH OPEN FLAMES AND ELECTRICAL ARCS.

Hazardous Decomposition Products:DURING COMBUSTION MAY FORM CARBON
MONOXIDE, CARBON DIOXIDE,HYDROGEN CHLORIDE AND PHOSGENE.

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

Waste Disposal Methods:COLLECT AS HAZARDOUS WASTE AND ATOMIZE IN A
SUITABLE RCRA APPROVED COMBUSTION C

HAMBER. DISPOSE OF IN FULL

COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL
REGULATIONS.

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