

FISHER SCIENTIFIC, CHEMICAL DIV. -- C574-4 CHLOROFORM -- 6810-01-218-7383

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

Product ID:C574-4 CHLOROFORM

MSDS Date:03/04/1996

FSC:6810

NIIN:01-218-7383

MSDS Number: BQKTW

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796

-7100/800-424-9300(CHEMTREC)

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:CHLOROFORM (SARA 302/313) (CERCLA)

CAS:67-66-3

RTECS #:FS9100000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 50 PPM

ACGIH TLV:10 PPM; A2; 9596

EPA Rpt Qty:10 LBS

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

LD50 LC50 Mixture:ORAL,RAT LD50: 908MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:EYE:LIQ/VAP CAUSE SEVERE

BURNS,POSSIBLE IRREVERSIBLE DMG.VAP IRRIT.SKIN:IRRIT W/BURNING

PAIN,ITCHING,REDNESS.INGEST:CNS DEPRESS,KIDNEY/LIV DMG,GI IRRIT

W/NAU,VOMIT,DIARR,CARDIAC DISTURBANCES,ASPIRATION INTO

LUNGS MAY

CAUSE CHEM PNEUMONITIS-FATAL.INHAL:HI CONCEN CAUSE CNS EFFECTS,RESP

TRACT IRRIT,LIVER/KIDNEY DMG,(SUPP)

Explanation of Carcinogenicity:PER MSDS:NTP:SUSPECT CARC;OSHA:POSSIBLE

SELECT CARC;IARC:GROUP 2B CARC. STATE OF CA LISTED.

Effects of Overexposure:EYE:SEVERE BURNS,IRREVERSIBLE

DMG,IRRIT.SKIN:IRRIT W/BURNING PAIN,ITCHING,REDNESS.INGEST:CNS

DEPRESS,KIDNEY DMG,LIVER DMG,GI IRRIT W/NAU,VOMIT,DIARR,CARDIAC

DISTURBANCES,CHEM PNEUMONITIS-FATAL.INHAL:CNS

EFFECT

S-HEAD,DIZZ,UNCONSC,COMA.RESP TRACT IRRIT,LIV/KID DMG,CARDIAC

SENS,FAILURE.CANC HAZ,DERM,ADVERSE REPROD EFFECTS

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

TARGET ORGANS:KIDNEYS,HEART,CENTRAL NERVOUS

SYSTEM,LIVER,GASTROINTESTINAL SYSTEM,EXCRETORY SYSTEM.

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

First Aid:EYE:FLUSH W/LOTS H2O @LEAST 15MINS,LIFT EYELIDS.DONT RUB OR

KEEP EYES CLSD.SKIN:RINSE W/LOTS OF H2O @LEAST 15MINS.REMOVE CON

TAM

CLOTH/SHOES.INGEST:DONT INDUCE VOMIT.CONSC/ALERT GIVE 2-4 CUPFULS

OF MILK/WATER.POSSIBLE ASPIRATION HAZ.INHAL:MOVE TO FRESH AIR

IMMED.NOT BREATH GIVE ART RESP;DIFFI GIVE OXY.IN ALL CASES GET MED

AID IMMED.DR:CAUSES CARDIAC SENS TO ENDOGENOUS

CATELCHOLAMINES-(SUPPLEMENTAL)

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

Flash Point:NOT AVAIL

Autoignition Temp:Autoignition Temp Text:N/AVAIL

Lower Limits:NOT AVAIL

Upper Limits:NOT AVAIL

Extinguishing Medi

a:USE WATER SPRAY, DRY CHEMICAL, FOAM. USE EXTINGUISHING MEDIA MOST APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: WEAR SCBA IN PRESSURE-DEMAND MSHA/NISOH APPROV/EQUIV & FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard: NON-FLAMM.

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

Spill Release Procedures: ABSORB W/INERT MATL (DRY SAND, EARTH). PLACE INTO CHEM WASTE CNTNR.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: WARNING! MAY CAUSE CNS DEPRESSION, EYE/SKIN/RESP/GI TRACTS IRRIT, CARDIAC DISTURBANCES, REPRODUCTIVE/FETAL EFFECTS, CANC BASED ON ANIMAL STUDIES.

Other Precautions: USE W/ADEQUATE VENTI. DONT GET IN EYE/SKIN. AVOID INGEST/INHAL. DONT STORE IN DIRECT SUNLIGHT. STORE IN COOL DRY WELL-VENTI AREA AWAY FROM INCOMPATIBLE SUBSTANCES. INCOMPT SUBST: STRONG OXIDIZERS, TRIISOPROPYLPHOSPHINE.

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

Respiratory Protection: FOLLOW OSHA RESP REGS FOUND IN 29CFR1019.134. ALWAYS USE NIOSH-APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation: USE ADEQU GEN/LOC EXHAU VENTI TO KEEP AIRBORNE CONCEN BELOW PEL

Protective Gloves: APPROPRIATE PROTECTIVE GLOVES

Eye Protection: PROTECTIVE EYEGLASSES, CHEM SAF GOGG, FACE

Other Protective Equipment: IAW 29CFR1910.133. APPROPRIATE PROTECTIVE CLOTH-PREVENT SKIN EXPO.

Work Hygienic Practices: WASH THOROUGHLY AFT HNDLG. WASH CONTAMIN CLOTH BEF REUSE.

Supplemental Safety and Health

HEALTH: CARDIAC SENS, POSSIBLE FAILURE. CHRONIC: DELAY KID INJURY, CANC HAZ BASED ON LAB ANIMALS TESTS, LIV DMG, DERM, ADVERSE REPROD EFFECTS. TOXICITY INCR BY ALCHOL, STEROIDS, KETONES. INCR INCIDENCE OF KID/LIV /RECTAL/BLADDER/COLON/BRAIN/LYMPH NODE CANC.

1ST AID: ARRHYTHMIAS. DONT USE ADRENERGIC AGENTS. NO SPEC ANTIDOTE.

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

HCC: T3

Boiling Pt: B.P. Text: 143F, 62C

Melt/Fre

eze Pt:M.P/F.P Text:-82F,-63C

Decomp Temp:Decomp Text:N/AVAI

Vapor Pres:160MM

Vapor Density:4.12

Spec Gravity:1.5

pH:NA

Viscosity:5.63MP @68F

Evaporation Rate & Reference:11.6,BUTYL ACETATE=1

Solubility in Water:INSOLUBLE

Appearance and Odor:CLEAR,COLORLESS,VOLATILE LIQUID, SWEET ODOR

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

CH3COCH3,ALKALIS,AL,DISILANE,LI,MG,NOX,HClO4,P2

O5,K,KOH,CH3OH,(CH3)3CO

K,NA,NAOH,CH3ONA,NA-K ALLOY,CAOH,F,(OTHER PRECAU)

Stability Condition to Avoid:HIGH TEMPERATURES, INCOMPATIBLE MATLS,  
LIGHT.

Hazardous Decomposition Products:HYDROGEN CHLORIDE,CARBON  
DIOXIDE,CHLORINE,PHOSGENE GAS

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

Waste Disposal Methods:RELEASED TO LAND MOST EVAPO RAPIDLY WHILE SOME  
LEACHES TO GROUNDWATER.RELEASE TO H2O SUBST EVAPO RAPIDLY.DISPO OF  
IN MANNER CONSISTENT W/FED/STATE/LOC  
REGS.RCRA WASTE

#:D022,U044.MATL BANNED FROM LAND DISPO IAW RCRA.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.