

FISHER SCIENTIFIC, CHEMICAL DIV. -- C298-4 CHLOROFORM -- 6810-01-449-5127

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

Product ID:C298-4 CHLOROFORM

MSDS Date:07/03/1997

FSC:6810

NIIN:01-449-5127

MSDS Number: CFWBC

=== 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

D

OT 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:NO

Health Hazards Acute and Chronic:CONTACT MAY CAUSE SKIN & EYE

IRRITATION.INHALATION & INGESTION MAY CAUSE CNS DEPRESSION.MAY
CAUSE RESPIRATORY & GI TRACT IRRITATION.INGESTION MAY CAUSE KIDNEY
& LIVER DAMAGE.INHALATION MAY CAUSE CARDI AC SENSI

TIZATION &

POSSIBLE FAILURE.CHRONIC:PROLONGED/REPEATED EXPOSURE MAY CAUSE
KIDNEY INJURY,CANCER,LIVER DAMAGE.

Explanation of Carcinogenicity:LISTED BY IARC (GROUP 2B CARCINOGEN),
NTP (SUSPECT CARCINOGEN), ACGIH (A2-SUSPECT CARCINOGEN), OSHA
(POSSIBLE SELECT).

Effects of Overexposure:EYES-SEVERE BURNS, POSSIBLE IRREVERSIBLE EYE
DAMAGE. SKIN-BURNING PAIN, ITCHING, REDNESS. INGESTED-NAUSEA,
VOMITING, DIARRHEA, CARDIAC DISTURBANCES. INHALED-HEADACHE,
DIZZINESS, UNCONSCIOUS

NESS, COMA.

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:IN ALL CASES GET IMMEDIATE MEDICAL ATTENTION. EYES-FLUSH WITH
WATER FOR 15 MINUTES, LIFT LIDS. SKIN-REMOVE CONTAMINATED CLOTHES.
WASH WITH MILD SOAP & WATER. INHALED-REMOVE TO FRESH AIR. GIVE
OXYGEN O R ARTIFICIAL

RESPIRATION AS NEEDED. INGESTED-DO NOT INDUCE

VOMITING! IF CONSCIOUS/ALERT, GIVE 2-4 CAPFULS MILK/WATER.

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

Flash Point:NOT AVAILABLE

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

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL FIRE FIGHTER'S PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:NON-FLAMMABLE.

=====

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

Spill Release Procedures: ABSORB SPILL WITH INERT MATERIAL, THEN PLACE IN A CHEMICAL WASTE CONTAINER. AVOID RUNOFF INTO STORM SEWERS & DITCHES WHICH LEAD TO WATERWAYS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: DO NOT STORE IN DIRECT SUNLIGHT. STORE IN A COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIAL

S. KEEP AWAY FROM ACIDS.

Other Precautions: DO NOT STORE NEAR ALKALINE SUBSTANCES. USE WITH ADEQUATE VENTILATION. DO NOT GET ON SKIN OR IN EYES. AVOID INGESTION & INHALATION.

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

Respiratory Protection: FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134. ALWAYS USE A NIOSH-APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation: USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: APPROPRIATE PROTECTIVE GLOVES.

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.

Other Protective Equipment: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE. DLA-HMIS: EYE WASH STATION & SAFETY SHOWER AVAILABLE.

Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

INCOMPATIBLES CONTINUED: NITROGEN TETROXIDE, PHOSPHOROUS PENTOXIDE,

POTASSIUM, POTASSIUM HYDROXIDE, METHYL ALCOHOL, POTASSIUM TER-BUTOXIDE, SODIUM METHYLATE, SODIUM-POTASSIUM ALLOY, TRIISOPROPYLPHOSPHINE, CALCIUM HYDROXIDE, FLUORINE.

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

HCC:T3

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

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

Decomp Temp: Decomp Text: NOT AVAIL..

Vapor Pres: 160

Vapor Density: 4.12

Spec Gravity: 1.5

Viscosity: 5.63 MP @ 68F

Evaporation Rate & Reference: 11.6 (N-BUTYL ACETATE=1)

Solub

ility in Water:INSOLUBLE

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

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

Stability Indicator/Materials to Avoid:YES

ACETONE, ALKALIS, STRONG OXIDIZING AGENTS, DISILANE, LITHIUM,
MAGNESIUM, NITROGEN TETROXIDE, PERCHLORIC ACID, SODIUM....

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

Hazardous Decomposition Products:HYDROGEN CHLORIDE, CARBON DIOXIDE,
CHLORINE, PHOSG
ENE GAS.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND
FEDERAL ENVIRONMENTAL REGULATIONS.

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.