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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 Ingred Name: CHLOROFORM (SARA 302/313) (CERCLA) CAS:67-66-3

RTECS #:FS9100000 Fraction by Wt: >99%

OSHA PEL:C 50 PPM

EPA Rpt Qty:10 LBS

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ACGIH TLV:10 PPM; A2; 9596

Other REC Limits:NONE RECOMMENDED

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: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.

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.

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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 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-APPOROVED 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. LAUNDER 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, TRIISOPROPYLPHOSPH INE, CALCIUM HYDROXIDE, FLUORINE.

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 & amp; Reference:11.6 (N-BUTYL ACETATE=1) Solub

ility in Water:INSOLUBLE Appearance and Odor:CLEAR, COLORLESS, VOLATILE LIQUID; SWEET ODOR.

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.

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

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