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MCKESSON CORP MCKESSON CHEMICAL CO DIV -- FREON (R) TF -- 6850-00-935-1082

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

Product ID:FREON (R) TF MSDS Date:06/24/1986

FSC:6850

NIIN:00-935-1082

MSDS Number: BQGQD ==== Responsible Party ===

Company Name: MCKESSON CORP MCKESSON CHEMICAL CO DIV

Address: 1 POST ST CROCKER PLZ

City:SAN FRANCISCO

State:CA

ZIP:94104-5201 Country:US

Emergency Phone Num:800-424-9300

CAGE :1JK82

=== Contractor Identification ===
Company Name:MCKESSON CORP
Address:1 POST ST CROCKER PLZ

Box:City:SAN FRANCISCO

State:CA

ZIP:94104-5201 Country:US CAGE:83782

Company Name: MCKESSON CORP MCKESSON CHEMICAL CO DIV

Address:1734 HAYES AVE Box:City:LONG BEACH

State:CA ZIP:90813 Country:US

Phone:415-983-9214

CAGE:1JK82

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

Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA III)

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: > 99%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1000PPM/1250STEL

ACGIH TLV:1000PPM/1250STEL9293

Ozone Depleting Chemical:1

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

LD50 LC50 Mixture: ORAL RAT LD50: 43 G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CENTRAL NERVOUS SYSTEM IRREGULARITIES, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS, DEATH, ASPHYXIATION HAZARD, EYE IRRITATION, GASTROINTESTINAL DISTURBANCES.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:LIGHTHEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS, DEATH, EYE IRRITATION, NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING CADIOVASCUL

AR DISEASE MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET IMMEDIATE MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH LOTS OF RUNNING WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH WITH SOAP AND WATER. REMOVE CONTMAINATED CLOTHING AND SHOES. INGESTION: DO NOT INDUCE VOMITING. GET IMMEDIA

TE MEDICAL ATTENTION.

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

Flash Point:NONFLAMMABLE Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media: NONFLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard: EXTINGUISH ALL NEARBY SOURCES OF IGNI

TION SINCE VAPORS DECOMPOSE TO HAZARDOUS PRODUCTS AT HIGH TEMPERATURES. ========= Accidental Release Measures ============== Spill Release Procedures: EXTINGUISH ALL IGNITION SOURCES. MOP OR WIPE UP AND DISPOSE OF IN DOT APPROVED CONTAINER. KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS AND SOIL. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. ============= Handling and Storage ================= Handling and Storage Precautions: STORE IN A COOL, D RY PLACE. KEEP CONTAINERS CLOSED WHEN MATERIAL IS NOT IN USE. KEEP AWAY FROM IGNITION SOURCES, AVOID PROLONGED OR REPEATED CONTACT. Other Precautions: DO NOT USE PRESSURE TO EMPTY CONTAINER. DO NOT HEAT ABOVE 125F. VAPOR OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW PLACES, SUCH AS PITS OR DEGREASERS OR OTHER POORLY VENTILATED AREAS. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: WEAR A NIOSH APPROVED SELF-CONTAINED **BREATHING** APPARATUS IN THE PRESSURE DEMAND MODDDE OR A SUPPLIED AIR RESPIRATOR IF USE CONDITIONS GENERATE VAPORS OR MIST. Ventilation:LOCAL AND MECHANICAL(GENERAL) EXHAUST TO PROVIDE ADEQUATE VENTILATION. Protective Gloves: RUBBER GLOVES Eye Protection: SAFETY GLASSES - CHEMICAL SPLASH GOGGLES Other Protective Equipment: WEAR INDUSTRIAL WORK CLOTHING. USE RUBBER APRON OR BOOTS IF NEEDED. HAVE EMERGENCY EYE WASH AND SAFETY SHOWER AVAILABLE. Work Hygienic Practices: WASH THORO UGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health

NOTE TO PHYSICIAN: BECAUSE OF A POSSIBLE INCREASED RISK OF ELICITING CARDIAC DYSRYTHMIAS, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE CONSIDERED ONLY AS A LAST RESORT IN LIFE THREATENING EMERG ENCIES.

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

HCC:N1

Boiling Pt:B.P. Text:118F,48C Melt/Freeze Pt:M.P/F.P Text :-31F,-35C Vapor Pres:334 Vapor Density:2.9 Spec Gravity:1.57

Evaporation Rate & Properties of the Evaporation Rate & Properties &

Solubility in Water:NIL

Appearance and Odor: COLORLESS LIQUID, SLIGHT ETHEREAL ODOR

Percent Volatiles by Volume:100 %

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

Stability Indicator/Materials to Avoid:YES

ALKALIS, OXIDIZING MATERIALS, WATER AND MOIST AIR. ALSO ALKALINE EARTH METALS AND POWDERED ALUMINUM OR ZINC.

Stability Condition to Avoid: OPEN FLAM ES, WELDING ARCS OR OTHER HIGH

TEMPERATURE SOURCES WHICH MAY INDUCE THERMAL DEDCOMPOSITION. Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE, CHLORINE, PHOSGENE OR HYDROGEN FLUORIDE

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

Waste Disposal Methods:DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APROPRIATE FEDERAL, STATE AND LOCAL REGULATO RY

AGENCIES TO ACCERTAIN P ROPER DISPOSAL PROCEDURES.

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