

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 CADIOVASCULA
R DISEASE MAY BE AT INCREASED
RISK FROM EXPOSURE.

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

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 CONTAMINATED CLOTHING AND SHOES. INGESTION: DO NOT
INDUCE VOMITING. GET IMMEDIATE
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 IGNIT

ION

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, DRY 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 MODE 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 THOROUGHLY AFTER HANDLING AND BEFORE

EATING, DRINKING OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

===== 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 & Reference:> 1 (BUTYL ACETATE = 1)
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 FLAME
S, WELDING ARCS OR OTHER HIGH
TEMPERATURE SOURCES WHICH MAY INDUCE THERMAL DECOMPOSITION.
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 APPROPRIATE FEDERAL, STATE AND LOCAL REGULATORY
AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

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