

CHEMICAL COMMODITIES AGENCY -- FREON TF -- 6850-00-319-0834

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

Product ID:FREON TF

MSDS Date:10/20/1992

FSC:6850

NIIN:00-319-0834

MSDS Number: BPBYB

=== Responsible Party ===

Company Name:CHEMICAL COMMODITIES AGENCY

Address:27447 PACIFIC STREET

City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Info Phone Num:714-864-2310

Emergency Phone Num:714-864-2310

Preparer's Name:DGSC-SSH

CAGE:60777

=== Contractor Identification ===

Company

Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

===== 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: >99.0%

OSHA PEL:1000PPM/1250STEL

ACGIH TLV:1000PPM/1250STEL9192

Ozone Depleting Chemical:1

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

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LD50 LC50 Mixture:LD50, ORAL, RAT 43,000 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: IRRITATION OF EYE, SKIN AND
RESPIRATORY TRACT; CNS EFFECTS: LIGHT-HEADEDNESS, GIDDINESS,
SHORTNESS OF BREATH, NARCOSIS, CARDIAC IRREGULARITIES, NAUSEA,
VOMITING. CHRONIC: IRRITATION, CARDIAC IR REGULARITIES.
Explanation of Carcinogenicity:PRODUCT CONTAINS NO INGREDIENTS
CURRENTL
Y CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA.
Effects of Overexposure:EYE IRRITATION, SKIN IRRITATION, RESPIRATORY
TRACT IRRITATION, LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH,
NARCOSIS, CARDIAC IRREGULARITIES, NAUSEA, VOMITING, DEFATTING OF
SKIN, DERMATITIS.
Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE MAY BE
AGGREVATED

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

First Aid:EYE AND SKIN: FLUSH WITH PLENTY OF WATER FOR ABOUT 15
MINUTES, & SEEK MEDICAL HELP IN NEEDED. INHALATION: REMOVE TO FRESH
AIR, CALL A PHYSICIAN FOR ADVICE. INGESTION: DO NOT INDUCE
VOMITING; CALL A PH YSICIAN IMMEDIATELY.

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

Flash Point:NONFLAMMABLE
Extinguishing Media:USE SUITABLE MEDIA FOR SURROUNDING FIRE.
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA IN AN ENCLOSED
AREA. KEEP CONTAINERS COOL WITH WATER SPRAY.
Unusual Fire/Explosion Hazard:AVOID EXTREME HE
AT;TOXIC VAPORS OR MIST
ARE POSSIBLE.

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

Spill Release Procedures:USE PROPER PERSONAL PROTECTION; REMOVE ALL
IGNITION SOURCES.USE SUITABLE INERT ABSORBENT MATERIAL AND RECOVER
FOR PROPER DISPOSAL. PROVIDE VENTILATION. REMOVE UNPROTECTED
PERSONNEL FROM THE AREA.

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

Handling and Storage Precautions:AVOID CONTACT WITH EYES AND SKIN.
STORE IN COOL

DRY AND WELL VENTILATED AREA (BELOW 125F). AVOID BREATHING VAPORS. VAPORS ARE HEAVY AND MAY ACCUMULATE
Other Precautions:CONTAINERS SHOULD BE TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM DAMAGE DURING STORAGE. PREVENT LEAKAGE OR SPILLAGE WHICH MAY RESULT IN OXYGEN DEPLETING BELOW LEVELS NECESSARY TO SUSTAIN LIFE.

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

Respiratory Protection:USE NIOSH/APPROVED RESPIRATOR FOR ORGANIC VAPORS/ MIST IF ABOVE PEL/TLV. ABOVE 1,000 PPM, USE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:LOCAL EXHAUST/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves:RUBBER

Eye Protection:CHEMICAL GOGGLES.

Other Protective Equipment:APRON,EYE-WASH,SAFETY SHOWER,BOOTS.

Work Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN.DO NOT BREATHE VAPORS/MIST.DO NOT EAT,SMOKE AND EAT IN WORK AREA.

Supplemental Safety and Health

MSDS PREPARED BY DGSC-SSH FROM SAME ITEM SUPPLIED BY CHEMICAL COMMODITIES UNDER DIFFERENT

STOCK NUMBER. FREON 113 MAY DILUTE OR DISPLACE OXYGEN BELOW LEVELS NECESSARY TO SUSTAIN LIFE.

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

HCC:N1

Boiling Pt:B.P. Text:118F/48C

Melt/Freeze Pt:M.P/F.P Text:-31F

Vapor Pres:334

Vapor Density:2.9

Spec Gravity:1.57

Evaporation Rate & Reference:>1.0 (BUT ACETATE=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR,COLORLESS LIQUID SLIGHT ETHEREAL.

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

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Stability Indicator/Materials to Avoid:YES

ALKALIES,OXIDIZING MATERIALS,WATER AL,ZINC,,ALKALINE EARTH METALS.

Stability Condition to Avoid:OPEN FLAMES,ARCS,EXTREME HEAT.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE, CHLORINE OR PHOSGENE

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

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL STATE AND FEDERAL REGULATIONS.

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