

CHEMTRONICS INC -- TF SOLVENT (LIQUID) -- 6850-00-319-0834

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

Product ID:TF SOLVENT (LIQUID)

MSDS Date:09/18/1990

FSC:6850

NIIN:00-319-0834

MSDS Number: BJCYB

=== Responsible Party ===

Company Name:CHEMTRONICS INC

Address:681 OLD WILLETS PATH

City:HAUPPAUGE

State:NY

ZIP:11788

Country:US

Info Phone Num:516-582-3322

Emergency Phone Num:516-582-3322

Preparer's Name:MICHAEL S. WATKINS

CAGE:2M589

=== Contractor Identification ===

Com

pany Name:CHEMTRONICS INC

Address:8125 COBB CENTER DRIVE

Box:City:KENNESAW

State:GA

ZIP:30152

Country:US

Phone:770-424-4888/800-645-5244

CAGE:21267

Company Name:CHEMTRONICS INC (CANCELLED USE 21267)

City:HAUPPAUGE

State:NY

ZIP:11760

Country:US

CAGE:2M589

===== 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: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000P

PM/1250STEL
ACGIH TLV:1000PPM/1250STEL9192
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LD50(ORAL RAT)= 43,000 MG/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: CAN CAUSE SUFFOCATION BY
REDUCING OXYGEN AVAILABLE FOR BREATHING. MAY LEAD TO NARCOSIS,
CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. REPEATED LIQUID
CONTACT WITH THE SKIN CAN CAUSE DEFATTI NG OF THE SKIN. CHRONIC:
UNKNOWN.
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS
LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.
Effects of Overexposure:LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF
BREATH, IRRITATION OF THE UPPER RESPIRATORY PASSAGES FROM INHALING.
DEFATTING LEADING TO IRRITATION OF THE SKIN.
Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE.

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

First Aid:EYES- FLUSH WITH WATER FOR AT LEAST 15 MINS. GET MEDICAL AID.
SKIN- WASH WITH MILD SOAP AND WATER. IF IRRITATION PERSISTS, SEE
DR.. INHALE- REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE
OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION.
INGEST- DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

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

Flash Point:NONE
Lower Limits:NON-FLAMM.
Upper Limits:NON-FLAMM.
Exting
uishing Media:NONFLAMMABLE. USE WATER FOG, CARBON DIOXIDE, FOAM,
OR DRY CHEMICAL FOR SURROUNDING FIRE.
Fire Fighting Procedures:(1/9/95 HMIS INFOMATION-KEEP CONTAINERS COOL
WITH WATER SPRAY. WEAR SELF-CONTAINED BREATHING APPARATUS.)
Unusual Fire/Explosion Hazard:DECOMPOSTION MAY OCCUR.

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

Spill Release Procedures:VENTILATE AREA. REMOVE OPEN FLAMES OR RED HOT
SURFACES. ALLOW TO EVAPORATE. (1/9/95 HMIS INFORMATION-EVACU

ATE

AREA. ABSORB SPILLED MATERIAL WITH AN INERT MATERIAL. SHOVEL (SPARK PROOF) ABSORBENT MATERIAL INTO DRUMS AND CLOSE. PROVIDE VENTILATION.)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAME, FIRE AND SPARKS. STORE IN COOL, DRY PLACE.

Other Precautions:WASH CONTAMINATED CLOTHING BEFORE RE-USE. (1/9/95 H

MIS INFORMATION-AVOID BREATHING VAPORS. VAPORS ARE HEAVY AND MAY ACCUMULATE. PROTECT CONTAINERS FROM DAMAGE DURING STORAGE. PREVENT LEAKAGE. INDOOR USAGE IN CONFINED SPACE, USE DETECTOR.)

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

Respiratory Protection:UNDER NORMAL CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED. (1/9/95 HMIS INFORMATION- ABOVE 1,000 PPM, USE SELF-CONTAINED BREATHING APPARATUS.)

Ventilation:LOCAL EXHAUST SHOULD BE USED WHEN LARGE AMOUNTS ARE

RELEASED. MECHANICAL VENTILATION SHOULD BE USED IN LOW PLACES.

Protective Gloves:SOLVENT RESISTANT

Eye Protection:CHEMICAL SAFETY GOGGLES/FACE SHIELD

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. OTHER EQUIPMENT AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

(1/9/95 HMIS INFORMATION-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

Vapor Pres:334

Vapor Density:6.5

Spec Gravity:1.57

pH:7.0

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

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH SLIGHT ETHEREAL ODOR.

Percent Volatiles by Volume:100

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

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Stability Indicator/Materials to Avoid: YES

ALKALI OR ALKALINE EARTH METALS, POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products: THIS COMPOUND CAN BE DECOMPOSED BY
HIGH TEMPERATURES FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS,
CARBONYL HALIDES.

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

Waste Disposal Methods: COMPLY WITH FEDERAL, STATE AND LOCAL
REGULATIONS. RECLAIM BY DISTILLATION
OR REMOVE TO PERMITTED WASTE
DISPOSAL FACILITY.

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