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TECHNICAL CHEMICAL CO. -- TF SOLVENT R-113 -- 6850-00-935-1082

Product ID:TF SOLVENT R-113 MSDS Date:07/05/1988 FSC:6850 NIIN:00-935-1082 MSDS Number: BLWCH === Responsible Party === Company Name: TECHNICAL CHEMICAL CO. Address:10737 SPANGLER ROAD Box:20098 City:DALLAS State:TX ZIP:75220-7101 Country:US Info Phone Num:214-556-1421 Emergency Phone Num:214-556-1421 Preparer's Name: KELLY BERRIOCHOA CAGE:8X792 === Contractor Identification === Company Name: TECHNICAL CHEMICAL COMPANY Address:10737 SPANGLER ROAD Box:20098 City:DALLAS State:TX ZIP:75220-7101 Country:US Phone:972-556-1421 CAGE:8X792

======= 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:1000PPM/1250STEL ACGIH TLV LD50 LC50 Mixture:LD 50 ORAL RAT 43000 MG/KG Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION: VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINE

SS, SHORTNESS OF B REATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, ULNCONSCIOUSNESS OF DEATH. SKIN/EYE: LIQUID CAN DEFAT TISSUE.

Explanation of Carcinogenicity: FREON 113 IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID IS NOT CORROSIVE O R AN IRRITANT, BUT C

AN CAUSE DEFATTING OF

TISSUE.

Medical Cond Aggravated by Exposure:SKIN DISEASE - FREON 113 IS A DEFATTING AGENT AND CAN CAUSE DERMATITIS ON PROLONGED EXPOSURE. PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS AGENT.

First Aid:INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. EY E/SKIN: FLUSH WITH WATER FOR 15 MINUTES. IF

IRRITATION PRESI STS, GET MEDICAL ATTENTION. ORAL: GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING AS THE HAZARD OF ASPIRATING INTO THE LUNGS IS TOO GREAT.

Flash Point Method:TOC Flash Point:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR FIRE FIGHTING PRO **TECTIVE EQUIPMENT AND A** FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. Unusual Fire/Explosion Hazard: CONTAINERS MAY RUPTURE UNDER FIRE CONDITIONS. COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. Spill Release Procedures: VENTILATE AREA. DO NOT FLUSH INTO SEWERS. COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL. COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS ON REPORTING RELEASES. Neutralizing Agent:NONE Handling and Storage Precautions: STORE IN A CLEAN, COOL, DRY AND WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP CLOSED. Other Precautions: AVOID BREATHING VAPOR, LIQUID CONTACT WITH EYES, SKIN OR CLOTHING. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES/VAP ORS, FOLLOW THE SAME PROCEDURE AS IF THEY WERE FULL. Respiratory Protection: NONE REQUIRED FOR ADEQUATELY VENTED WORK SITUATIONS. FOR ACCIDENTAL OR NON-VENTILATED SITUATIONS, USE A SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR, APPROVED BY NIOSH. Ventilation: PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER. Protective Gloves:BUT YL RUBBER, PVA OR NEOPRENE Eye Protection: CHEMICAL SPLASH GOGGLES Other Protective Equipment: USE IMPERVIOUS CLOTHING IF THERE IS REPEATED OR PROLONGED CONTACT WITH LIQUID. Work Hygienic Practices: REMOVE AND WASH CLOTHING PROMPTLY UPON CONTAMINATION. Supplemental Safety and Health NONE HCC:N1 Boiling Pt:B.P. Text:118F,48C Melt/Freeze Pt:M.P/F.P Text:31F FZ PT Vapor Pres:334 @ 77F Vapor Density:6.46 Spec Gravity:1.574 Ε

vaporation Rate & amp; Reference:0.1 (CCL4 = 1) Solubility in Water:0.02% @ 77F Appearance and Odor:CLEAR LIQUID. SLIGHT ETHEREAL ODOR.

Stability Indicator/Materials to Avoid:YES

CHEMICALLY ACTIVE METALS SUCH AS ALUMINUM, ZINC, BERRYLIUM, STRONG CAUSTICS AND OXIDIZERS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS.

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. EPA HAZARDOUS WATES NOS. F001 AND F002 MAY APPLY TO WASTE MATERIALS.

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