View NSN Online: https://aerobasegroup.kr/nsn/4940-00-825-0198

Product ID:REFRIGERANT 11, FREON 11 (SEE SUPP DATA) MSDS Date:04/07/1989 FSC:4940 NIIN:00-825-0198 MSDS Number: BJFPZ === Responsible Party === Company Name: RACON INC Address:6040 S RIDGE RD **City:WICHITA** State:KS ZIP:67201 Country:US Info Phone Num:800-835-2916 316-835-2916 **Emergency Phon** e Num:415-821-5338 CAGE:FO608 === Contractor Identification === Company Name: ELF ATOCHEM NORTH AMERICA (FORMERLY RACON INC) Address:6040 S RIDGE RD Box:198 **City:WICHITA** State:KS ZIP:67201 Country:US Phone:CALL COLLECT 415-821-5338 CAGE:2A580 Company Name: GENERAL ELECTRIC CO, INSTRUMENT PRODUCTS OPNS Address:50 FORDHAM RD Box:City:WILMINGTON State:MA ZIP:01887-2146 Country:US Phone:617-937-4101 CAGE:97424 **Company Name: RACON INC** Box:198 City:WICHITA State:KS ZIP:67201 Phone: (415) 821-5338 CAGE:FO60

8 Company Name:YOKOGAWA ELECTROFACT BV Address:3800 AD, RADIUMWEG 30 Box:City:AMERSFOORT THE NETHERLANDS Phone:404-253-7000 CAGE:60336

Ingred Name:TRICHLOROFLUOROMETHANE (CFC-11) (SARA III) CAS:75-69-4 RTECS #:PB6125000 Fraction by Wt: 100% OSHA PEL:1000 PPM ACGIH TLV:C, 1000 PPM; 9293 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS Ozone Depleting Chemical:1

LD50 LC50 Mixture:LC50(RAT)150,000PPM;(RBT)250,000PPM Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALE:RELATIVELY NON-TOXIC FOLLOWING ACUTE EXPOSURE. CARDIOVASCULAR AND RESPIRATORY SYSTEMS ARE THE PRIMARY SYSTEMS AFFECTED. AT HIGH CONC, SERIOUS & SOMETIMES FATAL IRREGULAR HEART BEATS. NOTE:SNIFF ING FOR INTOXICATING EFFECTS HAS PRODUCED OVER 100 DEATHS. Explanation of Carcinogenicit y:NOT RELEVANT Effects of Overexposure:INHALE:EXPOSURE TO LARGE SPILL, EXPERIENCE VARYING NARCOTIC EFFECTS INCLUDING UNCONSCIOUSNESS,RAPID HEART BEAT. EYES:MILD IRRITATION OF THE MUCOUS MEMBRANES.

Medical Cond Aggravated by Exposure:CARDIOVASCULAR AND RESPIRATORY SYSTEMS ARE THE PRIMARY SYSTEMS AFFECTED. (MFR)

First Aid:INHALE:REMOVE TO FRESH AIR. KEEP WARM & AT REST. IF BRTHNG DFCLT GIVE OXYGEN. IF NOT BRTHNG

GIVE CPR. DO NOT GIVE STIMULANTS. CALL MD. EYES: (VAPOR) FLUSH W/WATER FOR 20 MIN. (LIQ) FLUSH THOROUGHLY 10-15 MIN W/LUKEWARM WATER/BALANCED SALINE SOLN. GET MD. SKIN:(LIQ)WILL REMOVE NATURAL OILS AND CAN IRRITATE DRY, SENSITIVE SKIN. INGEST: (LIQ) IRRITATION TO GASTRIC OR DIGESTIVE TRACTS IN LGE QUANT. GET MD. Extinguishing Media:NONFLAMMABLE AND NONEXPLOSIVE. Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HCL AND PHOSGENE . Spill Release Procedures: KEEP UPWIND. VENTILATE ENCLOSED SPACES UNTIL GAS IS DISPERSED. DO NOT SMOKE OR OPERATE INTERNAL COMBUSTION ENGINES IN IMMEDIATE VICINITY. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: STORE W/ADEQ VENT IN COOL PLACE. NEVER USE IN CLSED/CONFINED SPACE.DO NOT USE NEAR ARC WELDING, OPEN FLAMES OR HOT SURFACES. SEE OTHER PRECAUTIONS. Other Precautions: HNDLNG/STOR: HEAT OR UV RADIATION MAY CAUSE FORMATION OF HCL AND/OR PHOSGENE. Respiratory Protection: RESP PROTECTION IS NOT NEEDED IF CONC ARE CONTROLLED. IF CONC EXCEED TLV(1,000PPM) USE NIOSH/MSHA AN APPROVED RF SPIRATOR FOR ORGANIC VAPOR. IN VERY HIGH CONC USE SCBA. Ventilation: LOCAL EXHAUST MAY BE NECESSARY TO REDUCE CONCENTRATIONS BELOW TLV(1,000PPM) Protective Gloves: USE CLOTH-LINED RUBBER GLOVES. Eye Protection: USE CHEMICAL GOGGLES & FULL FACE SHIELD. Other Protective Equipment: PROTECTIVE CLOTHING SHOULD MINIMIZE EXPOSED SKIN. Work Hygienic Practices: NO SMOKING IN AREA OF USE. Supplemental Safety and Health DO NOT BREATHE VAPORS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. NOT FOR FOOD

, DRUG OR COSMETIC USE. TRADE NAME (CON'T):GENETRON 11, FLUOROCARBON 11, CFC-11, R-11.

HCC:N1 Boiling Pt:B.P. Text:74.9F 23.8C Vapor Pres:.6PSIG@77F Vapor Density:.39 16/FT3 Spec Gravity:1.48 @ 77F Solubility in Water: INSOLUBLE Appearance and Odor: COLORLESS LIQUID, VERY SLIGHT ETHEREAL TO ODORLESS. Percent Volatiles by Volume:100 Stability Indicator/Mat erials to Avoid:YES AVOID CERTAIN ELASTOMERS, ALKALI AND ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC, BERYLLIUM. Stability Condition to Avoid: CONTACT W/OPEN FLAMES OR EXTREMELY HOT METAL SURFACES AS PROD MAY DECOMPOSE TO FORM HF, HCI & TRACES OF CARBONYL HALIDES. Hazardous Decomposition Products: CONTACT WITH OPEN FLAME OR HOT METAL SURFACES, MAY DECOMPOSE TO FORM HF, HCI & TRACES OF CARBONYL HALIDES AND/OR PHOSGENE

Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL, STATE AND LOCAL REGULATIONS. .

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