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RACON INC -- REFRIGERANT 11, FREON 11 (SEE SUPP DATA) -- 4940-00-825-0198

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

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

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Company Name: YOKOGAWA ELECTROFACT BV

Address:3800 AD, RADIUMWEG 30

Box:City:AMERSFOORT THE NETHERLANDS

Phone:404-253-7000

CAGE:60336

======= Composition/Information on Ingredients ========

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

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

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. ============= Fire Fighting Measures ======================== 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. =========== Accidental Release Measures =============== 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 ========================== 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. ===== Exposure Controls/Personal Protection ======== CONTROLLED. IF CONC EXCEED TLV(1,000PPM) USE NIOSH/MSHA AN APPROVED SPIRATOR FOR ORGANIC VAPOR. IN VERY HIGH CONC USE SCBA.

Respiratory Protection: RESP PROTECTION IS NOT NEEDED IF CONC ARE

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.
========== Physical/Chemical Properties ============
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 and Reactivity Data ===========
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
======== Disposal Considerations ====================================

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

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