

RACON -- REFRIGERANT 11, FREON 11 (SEE SUPP DATA) - LEAK DETECTOR,
REFRIGERANT GAS

MATERIAL SAFETY DATA SHEET

RACONNSN: 4940008250198

Manufacturer's CAGE: 2A580

Part No. Indicator: A

Part Number/Trade Name: REFRIGERANT 11, FREON 11 (SEE SUPP DATA)

=====
General Information
=====

Item Name: LEAK DETECTOR, REFRIGERANT GAS

Company's Name: RACON INC

Company's Street: 6040 S RIDGE RD

Company's City: WICHITA

Company's State: KS

Company's Country: US

Company's Zip Code: 67201

Company's Emerg Ph #: 415-821-5338

Company's Info Ph #: 800-835-2916 316-835-2916

Distributor/Vendor # 1: AMETEK INC

Distributor/Vendor # 1 Cage: 97424

Distributor/Vendor # 2: YOKOGAWA CORP OF AMERICA

Distributor/Vendor # 2 Cage: 60336

Record No. For Safety Entry: 001

Tot Safety Entries This Stk#: 002

Status: SMJ

Date MSDS Prepared: 07APR89

Safety Data Review Date: 01NOV90

Supply Item Manager: S9C

MSDS Serial Number: BJFPZ

Hazard Characteristic Code: N1

=====
Ingredients/Identity Information
=====

Proprietary: NO

Ingredient: TRICHLOROFLUOROMETHANE (CFC-11) (SARA III)

Ingredient Sequence Number: 01

Percent: 100

NIOSH (RTECS) Number: PB6125000

CAS Number: 75-69-4

OSHA PEL: 1000 PPM

ACGIH TLV: C, 1000 PPM; 9293

=====
Physical/Chemical Characteristics
=====

Appearance And Odor: COLORLESS LIQUID, VERY SLIGHT ETHEREAL TO ODORLESS.

Boiling Point: 74.9F 23.8C

Vapor Pressure (MM Hg/70 F): .6PSIG@77F

Vapor Density (Air=1): .39 16/FT3

Specific Gravity: 1.48 @ 77F

Solubility In Water: INSOLUBLE

Percent Volatiles By Volume: 100

=====
Fire and Explosion Hazard Data
=====

Extinguishing Media: NONFLAMMABLE AND NONEXPLOSIVE.

Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA AND FULL

PROTECTIVE EQUIPMENT (FP N).

Unusual Fire And Expl Hazrds: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HCL AND PHOSGENE (FP N).

=====
Reactivity Data
=====

Stability: YES

Cond To Avoid (Stability): CONTACT W/OPEN FLAMES OR EXTREMELY HOT METAL SURFACES AS PROD MAY DECOMPOSE TO FORM HF,HCI & TRACES OF CARBONYL HALIDES.

Materials To Avoid: AVOID CERTAIN ELASTOMERS, ALKALI AND ALKALINE EARTH METALS,POWDERED ALUMINUM, ZINC, BERYLLIUM.

Hazardous Decomp Products: CONTACT WITH OPEN FLAME OR HOT METAL SURFACES, MAY DECOMPOSE TO FORM HF,HCI & TRACES OF CARBONYL HALIDES AND/OR PHOSGENE

Conditions To Avoid (Poly): NONE SPECIFIED BY MANUFACTURER.

=====
Health Hazard Data
=====

LD50-LC50 Mixture: LC50(RAT)150,000PPM;(RBT)250,000PPM

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: NO

Health Haz 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:SNIFFING FOR INTOXICATING EFFECTS HAS PRODUCED OVER 100 DEATHS.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NOT RELEVANT

Signs/Symptoms Of Overexp: INHALE:EXPOSURE TO LARGE SPILL, EXPERIENCE MILD IRRITATION OF THE MUCOUS MEMBRANES.

Med Cond Aggravated By Exp: CARDIOVASCULAR AND RESPIRATORY SYSTEMS ARE THE PRIMARY SYSTEMS AFFECTED. (MFR)

Emergency/First Aid Proc: 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

(LIQ)IRRITATION TO GASTRIC OR DIGESTIVE TRACTS IN LGE QUANT. GET MD.

=====
Precautions for Safe Handling and Use
=====

Steps If Matl Released/Spill: 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.

Waste Disposal Method: DISPOSE OF I/A/W FEDERAL, STATE AND LOCAL REGULATIONS. (FP N).

Precautions-Handling/Storing: 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. (FP N)

=====
Control Measures
=====

Respiratory Protection: RESP PROTECTION IS NOT NEEDED IF CONC ARE CONTROLLED. IF CONC EXCEED TLV(1,000PPM) USE NIOSH/MSHA AN APPROVED RESPIRATOR 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. (FP N)

Suppl. Safety & Health Data: 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.

=====
Transportation Data
=====

Trans Data Review Date: 90331
DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
AFI PSN Code: ZZZ
AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
Additional Trans Data: NOT REGULATED FOR TRANSPORTAION

=====
Disposal Data
=====

=====
Label Data
=====

Label Required: YES
Technical Review Date: 20JUN91
Label Date: 20JUN91
Label Status: G
Common Name: REFRIGERANT 11, FREON 11
Chronic Hazard: YES
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE: HARMFUL IF INHALED. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. MAY CAUSE EYE IRRITATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. CHRONIC: TARGET ORGAN: HEART.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: RACON INC
Label Street: 6040 S RIDGE RD
Label City: WICHITA
Label State: KS
Label Zip Code: 67201
Label Country: US
Label Emergency Number: 415-821-5338