RACON -- RACON 11, FREON 11, CFC-11, REFRIGERANT 11 -
TRICHLOROTRIFLUOROMETHANE, TECHNICAL
MATERIAL SAFETY DATA SHEET
FSC: 6830
NIIN: 000794694
Manufacturer's CAGE: 2A580
Part No. Indicator: A
Part Number/Trade Name: RACON 11, FREON 11, CFC-11, REFRIGERANT 11

General Information

Item Name: TRICHLOROTRIFLUOROMETHANE, TECHNICAL
Company's Name: RACON INCORPORATED
Company's Street: 6040 S RIDGE RD
Company's P. O. Box: 198
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 #: 800-835-2916/316-524-3245
Record No. For Safety Entry: 003
Tot Safety Entries This Stk#: 006
Status: SE
Date MSDS Prepared: 07APR89
Safety Data Review Date: 21DEC89
Supply Item Manager: CX
MSDS Preparer's Name: VICE PRESIDENT OF MFRG
MSDS Serial Number: BHFXR
Specification Number: BB-F-1421B
Spec Type, Grade, Class: TYPE II
Hazard Characteristic Code: N1
Unit Of Issue: DR
Unit Of Issue Container Qty: 100 POUNDS
Type Of Container: DRUM
Net Unit Weight: 100 POUNDS

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
Other Recommended Limit: NOT ESTABLISHED

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): 791
Vapor Density (Air=1): 5.14
Specific Gravity: 5.14
Evaporation Rate And Ref: UNKNOWN
Solubility In Water: INSOLUBLE
Percent Volatiles By Volume: 100

Fire and Explosion Hazard Data

Extinguishing Media: USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOAM.
Special Fire Fighting Proc: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire And Expl Hazards: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): EXTREMELY HOT METAL SURFACES OR OPEN FLAMES.
Materials To Avoid: CERTAIN ELASTOMETERS, ALKALI, ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC, BERYLLIUM, SODIUM, POTASSIUM AND BARIUM.
Hazardous Decomp Products: MAY DECOMPOSE TO FORM HIGHLY TOXIC AND IRRITATING HYDROGEN CHLORIDE, HYDROGEN FLUORIDE AND TRACES OF PHOSGENE.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE

Health Hazard Data

Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
NARCOTIC EFFECTS, UNCONSCIOUSNESS, RAPID HEART BEAT.
INGESTION: IRRITATION.
COORDINATION SYMPTOMS. CARDIAC EFFECTS - CAPABLE OF SENSITIZING THE
HEART TO INJECTED EPINEPHRINE.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT LISTED AS A CARCINOGEN BY NTP, IARC OR
OSHA ASPHYXIATION, CARDIAC ARRHYTHMIAS. INGESTION: IRRITATION TO
GASTRIC OR DIGESTIVE TRACTS.
Med Cond Aggravated By Exp: INDIVIDUALS WITH HEART OR RESPIRATORY
DISORDERS MAY PROVE ESPECIALLY SUSCEPTIBLE.
Emergency/First Aid Proc: EYES/SKIN: FLUSH WITH WATER FOR AT LEAST 15
MINUTES. IF IRRITATION PERSISTS, SEE DOCTOR. INHALATION: REMOVE TO FRESH
AIR. IF LARGE QUANTITIES ARE INGESTED, GASTRIC EMPTYING MIGHT BE
RECOMMENDED. SEE DOCTOR.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: VENTILATE ENCLOSED SPACES UNTIL GAS IS
DISPERSED. USE RESPIRATOR AND PROTECTIVE CLOTHING. ABSORB IN INERT
MATERIAL AND PLACE IN APPROPRIATE DISPOSAL CONTAINER AND SEAL. FLUSH
AREA WITH LARGE AMOUNTS OF WATER.
Neutralizing Agent: NONE
Waste Disposal Method: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
Precautions-Handling/Storing: STORE AND USE WITH ADEQUATE VENTILATION.
NEVER USE IN A CLOSED OR CONFINED SPACE. STORE IN COOL PLACE
(<120°F, 49°C).
Other Precautions: DO NOT BREATHE VAPORS. AVOID CONTACT WITH EYES, SKIN
AND CLOTHING. NOT FOR FOOD, DRUG, OR COSMETIC USE.

Control Measures

Respiratory Protection: NOT NEEDED IF CONCENTRATIONS ARE CONTROLLED. IF
TLV IS EXCEEDED USE NIOSH-APPROVED RESPIRATOR WITH ORGANIC VAPOR
CARTRIDGE OR SCBA AS APPROPRIATE FOR EXPOSURE OF CONCERN.
Ventilation: MECHANICAL AND/OR LOCAL EXHAUST TO KEEP CONCENTRATION
BELOW TLV.
Protective Gloves: CLOTH-LINED RUBBER GLOVES.
Eye Protection: GOGGLES/FULL FACE SHIELD IF SPLASHING.
Other Protective Equipment: APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE.
EYE WASH STATION & SAFETY SHOWER RECOMMENDED.
Work Hygienic Practices: WASH THOROUGHLY AFTER USE AND BEFORE EATING,
SMOKING OR USING TOILET FACILITIES. DO NOT BREATHE VAPORS OR MIST.
Suppl. Safety & Health Data: TARGET ORGANS ARE EYES, SKIN, CENTRAL NERVOUS
SYSTEM AND HEART.
Transportation Data

Trans Data Review Date:  90002
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

Disposal Data

Label Data

Label Required: YES
Label Status: G
Common Name: RACON 11,FREON 11,CFC-11,REFRIGERANT 11
NARCOTIC EFFECTS,UNCONSCIOUSNESS,RAPID HEART BEAT.
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Label P.O. Box: 198
Label City: WICHITA
Label State: KS
Label Zip Code: 67201
Label Country: US
Label Emergency Number: 415-821-5338

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