RACON 12,

RACON -- REFRIGERANT 12,FREON 12,GENETRON 12,R-12,CF - DICHLORODIFLUOROMETHANE, TECHNICAL
MATERIAL SAFETY DATA SHEET
FSC: 6830
NIIN: 002645913
Manufacturer's CAGE: 2A580
Part No. Indicator: A
Part Number/Trade Name: REFRIGERANT 12,FREON 12,GENETRON 12,R-12,CF

General Information

Item Name: DICHLORODIFLUOROMETHANE, 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 #: CALL COLLECT 415-821-5338
Company's Info Ph #: 800-835-2916/316-524-3245
Record No. For Safety Entry: 003
Tot Safety Entries This Stk#: 007
Status: SE
Date MSDS Prepared: 07APR89
Safety Data Review Date: 13OCT92
Supply Item Manager: CX
MSDS Serial Number: BPBKVC
Specification Number: BB-F-1421
Spec Type, Grade, Class: TYPE 12
Hazard Characteristic Code: G3
Unit Of Issue: CY
Unit Of Issue Container Qty: 1
Type Of Container: CYLINDER
Net Unit Weight: 45 POUNDS

Ingredients/Identity Information

Proprietary: NO
Ingredient: DICHLORODIFLUOROMETHANE (SARA III)
Ingredient Sequence Number: 01
Percent: 100
NIOSH (RTECS) Number: PA8200000
CAS Number: 75-71-8
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9192
Other Recommended Limit: NOT ESTABLISHED

Physical/Chemical Characteristics

Appearance And Odor: CLEAR, COLORLESS LIQUEFIED GAS; SLIGHT ETHEREAL ODOR
Boiling Point: -21.6F/-29C
Vapor Pressure (MM Hg/70 F): 79.8 PSIG
Vapor Density (Air=1): 2.32LB/FT3
Specific Gravity: 1.31 OF LIQUID
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: UNKNOWN
Solubility In Water: INSOLUBLE
Percent Volatiles By Volume: 100
Corrosion Rate (IPY): UNKNOWN

Fire and Explosion Hazard Data

Flash Point: NONE
Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.
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 Hazrds: USE WATER SPRAY OR FOG TO COOL CONTAINERS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HIGH TEMPERATURES AND OPEN FLAMES
Materials To Avoid: ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.
Hazardous Decomp Products: HYDROCHLORIC AND HYDROFLUORIC ACIDS-POSSIBLY CARBONYL HALIDES. DECOMPOSED BY HIGH TEMPERATURES(OPEN FLAMES, HOT METAL)
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE

Health Hazard Data

LD50-LC50 Mixture: LC 50 RAT 800,000 PPM/30 MIN
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, ASPHYXIATION AND DEATH. INTENTIONAL MISUSE CAN BE FATAL. LIQUID CONTACT CAN CAUSE FROSTBITE. MAY CAUSE EYE IRRITATION.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: DATA PER MSDS
Signs/Symptoms Of Overexp: EYE IRRITATION WITH DISCOMFORT, TEARING, OR BLURRING OF VISION. SKIN CONTACT MAY RESULT IN FROSTBITE. INHALING MAY CAUSE TEMPORARY NERVOUS SYSTEM DEPRESSION WITH DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, AND LOSS OF CONSCIOUSNESS. EXCESSIVE EXPOSURES MAY CAUSE HEART AND CIRCULATORY IRREGULARITIES.
Med Cond Aggravated By Exp: INDIVIDUALS WITH PREEXISTING DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.
Emergency/First Aid Proc: EYES: IMMEDIATELY FLUSH WITH PLenty OF WATER FOR AT LEAST 15 MINUTES. SEE DOCTOR. SKIN: FLUSH WITH WATER. TREAT FOR FROSTBITE IF NECESSARY. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED.
GET MEDICAL HELP. INGESTION: GET MED HELP. NOTE TO PHYSICIAN: BECAUSE OF POSSIBLE CARDIAC DISTURBANCE, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE SHOULD BE USED WITH SPECIAL CAUTION.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: VENTILATE AREA, ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SCBA FOR LARGE SPILLS.
Neutralizing Agent: NONE APPLICABLE FOR THIS MATERIAL
Waste Disposal Method: CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.
RECLAIM OR REMOVE TO A PERMITTED FACILITY. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
Precautions-Handling/Storing: STORE IN COOL, DRY, WELL VENTILATED AREA.
PROTECT FROM PHYSICAL DAMAGE, HEAT AND IGNITION SOURCES. KEEP CONTAINERS CLOSED. DO NOT STORE ABOVE 125F.
Other Precautions: AVOID BREATHING VAPORS AND LIQUID CONTACT WITH SKIN OR EYES. USE ONLY IN WELL VENTILATED AREA.

Control Measures

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: MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA IS NOT VENTED.
Protective Gloves: BUTYL RUBBER, PVA OR NEOPRENE
Eye Protection: CHEMICAL SPLASH GOGGLES
Other Protective Equipment: FULL SKIN AND EYE PROTECTION, APRON, EYE WASH
Work Hygienic Practices: DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH THIS PRODUCT.
Suppl. Safety & Health Data: NONE.

Transportation Data

Trans Data Review Date: 92287
DOT PSN Code: ETJ
DOT Proper Shipping Name: DICHLORODIFLUOROMETHANE
DOT Class: 2.2
DOT ID Number: UN1028
DOT Label: NONFLAMMABLE GAS
IMO PSN Code: FKB
IMO Proper Shipping Name: DICHLORODIFLUOROMETHANE
IMO Regulations Page Number: 2129
IMO UN Number: 1028
IMO UN Class: 2(2.2)
IMO Subsidiary Risk Label: -
IATA PSN Code: IWJ
IATA UN ID Number: 1028
IATA Proper Shipping Name: DICHLORODIFLUOROMETHANE
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
AFI PSN Code: IWJ
AFI Prop. Shipping Name: DICHLORODIFLUOROMETHANE
AFI Class: 2.2
AFI ID Number: UN1028
AFI Label: NON-FLAMMABLE GAS
AFI Basic Pac Ref: 6-6,6-8
Additional Trans Data: NONE

Label Data

Label Required: YES
Technical Review Date: 13OCT92
MFR Label Number: NONE
Label Status: F
Common Name: REFRIGERANT 12,FREON 12,GENETRON 12,R-12,CFC-12,FLUCARB 12.
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION. CONTACT WITH LIQUID MAY CAUSE FROSTBITE. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES. INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUSE CAN BE FATAL. LIQUID CONTACT CAN CAUSE FROSTBITE. MAY CAUSE EYE IRRITATION. FIST AID-INHALATION:REMOVE TO FRESH AIR, GIVE COR/OXYGEN IF NEEDED. GET MEDICAL HELP. EYE/SKIN:FLUSH WITH WATER, SEEK MEDICAL HELP. INGESTION:SEEK MEDICAL HELP.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: RACON INCORPORATED
Label Street: 6040 S RIDGE RD
Label P.O. Box: 198
Label City: WICHITA
Label State: KS
Label Zip Code: 67201
Label Country: US
Label Emergency Number: CALL COLLECT 415-821-5338

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