

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: BPBKV

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 FROSBITE. 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/OXIGEN 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 FROSBITE. 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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