

REFRIGERANT 11,FREON 11,GENETRON 11,FLUOROC

MSDS Number

BKBKR

National Stock Number

6830-00-281-3036

Product Name

REFRIGERANT 11,FREON 11,GENETRON 11,FLUOROC

Manufacturer

RACON INCORPORATED

Product Identification

Product ID:REFRIGERANT 11,FREON 11,GENETRON 11,FLUOROC

MSDS Date:07/07/1989

FSC:6830

NIIN:00-281-3036

MSDS Number: BKBKR

Responsible Party

RACON INCORPORATED

6040 S RIDGE RD

WICHITA , KS 67201

US

Emergency Phone: 415-821-5338

Info Phone: 800-835-2916/316-524-3245

Cage: KO001

Contractor

REFRIGERATION SALES CO INC

LONG ISLAND CITY, NY 11101-2211

US

800-221-0603

Cage: 3A676

Ingredients

TRICHLOROFLUOROMETHANE (CFC-11) (SARA III)

CAS: 75-69-4

RTECS: PB6125000

Fraction By Weight: 100%

OSHA PEL1000 PPM

ACGIH TLV: C, 1000 PPM; 9293

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: VAPOR IS HEAVIER THAN AIR
AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR
BREATHING. BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE
LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO

NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.
SKIN/EYE: IRRITATION AND FROSTBITE.
Explanation of Carcinogenicity:FREON 11 IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.
Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID IS IRRITATING TO SKIN AND EYES, AND MAY CAUSE FROSTBITE.
Medical Cond Aggravated by Exposure:PERSONS WITH KNOWN HISTORY OF HEART DISEASE OR IRREGULARITIES OF HEARTBEAT SHOULD BE PARTICULARLY CAREFUL TO AVOID OVEREXPOSURE TO THESE VAPORS.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. EYE: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. IF FROSTBITE, WARM SKIN SLOWLY. GET MEDICAL ATTENTION.

Fire Fighting

Flash Point:NONFLAMMABLE
Extinguishing Media:USE WATER FOG TO COOL CYLINDERS.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.
Unusual Fire/Explosion Hazard:HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS, SUCH AS HYDROGEN FLUORIDE, AND CARBONYLS OF FLUORIDE.

Accidental Release

Spill Release Procedures:VENTILATE AREA. KEEP UPWIND, EVACUATE ENCLOSED SPACE. DISPERSE GAS WITH FLOOR-LEVEL FORCED AIR VENTILATION OR WATER SPRAY. DO NOT SMOKE. REMOVE FLAMES, HEATING ELEMENTS, GAS ENGINES, ETC.
Neutralizing Agent:NONE

Handling

Handling and Storage Precautions:STORE IN A CLEAN, COOL, DRY AND WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP TIGHTLY CLOSED.
Other Precautions:AVOID BREATHING VAPOR, LIQUID CONTACT WITH EYES, SKIN OR CLOTHING. DO NOT DROP, REUSE, OR REFILL CONTAINER. DO NOT STORE NEAR HEAT OR IN DIRECT SUN. KEEP CONTAINERS BELOW 120 F. READ LABEL BEFORE USE.

Exposure Controls

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:PROVIDE LOCAL AND MECHANICAL EXHAUST WHEN USED.
Protective Gloves:SYNTHETIC INSULATED RUBBER GLOVE
Eye Protection:CHEMICAL SPLASH GOGGLES
Other Protective Equipment:USE IMPERVIOUS CLOTHING TO PROTECT EXPOSED SKIN FROM LIQUID CONTACT.
Work Hygienic Practices:DO NOT SMOKE IN AREA WHILE PRODUCT IS IN USE.
Supplemental Safety and Health
NONE

Chemical Properties

HCC:N1
Boiling Pt:B.P. Text:75.0F,23.9C
Vapor Pres:0.6 PSI
Vapor Density:0.39
Spec Gravity:1.48 @ 77F
Solubility in Water:INSOLUBLE

Appearance and Odor: COLORLESS LIQUID, SLIGHT ETHEREAL ODOR
Percent Volatiles by Volume: 100

Stability

Stability Indicator/Materials to Avoid: YES

ALKALI OR ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC AND BERYLIUM.

Stability Condition to Avoid: HIGH TEMPERATURES, HOT METAL SURFACES,
OPEN FLAMES.

Hazardous Decomposition Products: DECOMPOSED BY HIGH TEMPERATURES (OPEN
FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND
HYDROFLUORIC ACIDS.

Disposal

Waste Disposal Methods: BEST TO RECYCLE OR RECLAIM, IF POSSIBLE. MAY BE
INCINERATED IN OIL-FIRED FURNACE, BUT TOXIC AND CORROSIVE
COMBUSTION GASES MUST BE HANDLED. CONSULT FEDERAL, STATE, OR LOCAL
AUTHORITIES FOR PROPER DISPOSAL PROCEDURES. LISTED AS HAZ WASTE.

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