

KAISER ALUMINUM AND CHEMICAL CO (LAROCHE CHEM INC) -- FLUOROCARBON K-11 --
6830-00-281-3036

===== Product Identification =====

Product ID:FLUOROCARBON K-11

MSDS Date:06/01/1986

FSC:6830

NIIN:00-281-3036

MSDS Number: BJYVY

=== Responsible Party ===

Company Name:KAISER ALUMINUM AND CHEMICAL CO (LAROCHE CHEM INC)

Address:RIVER RD

Box:337

City:GRAMERCY

State:LA

ZIP:70052

Country:US

Info Phone Num:504

-355-1260 OR 504-869-5111

Emergency Phone Num:504-355-1260 OR 504-869-5111

CAGE:4K188

=== Contractor Identification ===

Company Name:KAISER ALUMINUM AND CHEMICAL CO

Address:RIVER RD

Box:337

City:GRAMERCY

State:LA

ZIP:70052

Country:US

Phone:504-355-1260 OR 504-869-5111

CAGE:4K188

Company Name:REFRIGERATION SALES CO INC

Address:38-18 33RD ST

Box:City:LONG ISLAND CITY

State:NY

ZIP:11101-2211

Country:US

Phone:800-221-0603

CAGE:3A676

===== Composition/Information on Ingredients =====

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Ingred Name:TRICHLOROFLUOROMETHANE (CFC-11) (SARA III)

CAS:75-69-4

RTECS #:PB6125000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000 PPM

ACGIH TLV:C, 1000 PPM; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ozone Depleting Chemical:1

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===== Hazards Identification =====

LD50 LC50 Mixture:LC 50 IHL MOUSE 10 PPH/30M

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

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

Health Hazards Ac

ute and Chronic:INHALATION: MAY INDUCE NARCOSIS IN

CONCENTRATIONS ABOVE 1000 PPM. MAY CAUSE ASPHYXIATION IN HIGH CONCENTRATIONS. SKIN AND EYES: NOT READILY ABSORBED THROUGH SKIN, MUCOUS MEMBRANES OR TISSUE OF EYE. MA Y CAUSE FROSTBITE IF EXPOSED TO DIRECT SPRAY. INGESTION: NOT LIKELY; LOW TOXICITY.

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-HEADE

DNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY

LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID IS IRRITATING TO S KIN 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.

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===== First Aid Measures =====

First Aid:INALATION: 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.

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===== Fire Fighting Measures =====

Autoignition Temp:Autoignition Temp Text:NONE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire F

ighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:ON HEATING TO DECOMPOSITION, MAY PRODUCE PRODUCTS SUCH AS HALOGEN ACIDS AND PHOSGENE.

===== Accidental Release Measures =====

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 and Storage =====

Handling and Storage Precautions:STORE IN WELL-VENTILATED, DRY AREA BELOW 125F. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP TIGHTLY CLOSED. AVOID CONTACT WITH FLAMES OR HIGH HEAT

Other Precautions:HIGH PRESSURE CYLINDERS SHOULD NOT BE EXPOSED TO HIGH TEMPERATURES OR PRESSURES BECAUSE OF THE INCREASED RISK OF PRESSURE INDUCED CYLINDER EXPLOSIONS.

===== Exposure Controls/Personal Protection =====

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. SAFETY SHOES IF HANDLING CYLINDERS.

Work Hygienic Practices:DO NOT SMOKE IN AREA WHILE PRODUCT IS IN USE.

Supplemental Safety and Health

NONE

===== Physical/Chemical Properties =====

HCC:G3

Boiling Pt:B.P. Text:74.8F,23.8C

Melt/Freeze Pt:M.P/F.P Text:-168F,-111C

Vapor Pres:699

Vapor Density:4.7

Spec Gravity:1.470

Evaporation Rate & Reference:GAS ABOVE 75F

Solubil

ity in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS TO WATER-WHITE, NEARLY ODORLESS LIQUID OR GAS.

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

SLIGHT HYDROLYSIS WITH WATER.

Stability Condition to Avoid:OPEN FLAMES

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

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==== Disposal Considerations =====

Waste Disposal Methods:BEST TO RECYCLE OR RECLAIM, IF POSSIBLE. CONSULT FEDERAL, STATE, OR LOCAL AUTHORITIES FOR PROPER DISPOSAL PROCEDURES.

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