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LAROCHE CHEMICALS INC -- R-22; HCFC-22; REFRIGERANT 22

MSDS Safety Information

FSC: 6830

NIIN: 00-935-9896 MSDS Date: 02/01/1997 MSDS Num: CKCHQ

Product ID: R-22; HCFC-22; REFRIGERANT 22

Responsible Party Cage: 0YFW2

Name: LAROCHE CHEMICALS INC Address: 1134 JEFFERSON HWY

Box: 5500

City:

GRAMERCY LA 70052

Info Phone Number: 800-528-4963

Emergency Phone Number: 800-528-4963 Resp. Party Other MSDS No.: MSDS # 2403

Item Description Information

Item Manager: S9G

Item Name: MONOCHLORODIFLUOROMETHANE, TECHNICAL

Specification Number: BB-F-1421 Tvpe/Grade/Class: 22 TYPE

Unit of Issue: CY

Quantitative Expression: 0000000030LB

UI Container Qty: 1

Type of Container: DISPO CYLIND

Ingredients

Cas: 75-45-6

RTECS #: PA6390000

Name: CHLORODIFLUOROMETHANE

> Wt: 99.9

Other REC Limits: NIOSH 1000 PPM TWA ACGIH TLV: 3540 MG/M3:1000 PPM ACGIH STEL: NOT ESTABLISHED

Ozone Depleting Chemical: 2

Health Hazards Data

LD50 LC50 Mixture: NONE PROVIDED BY MFR.

R

oute Of Entry Inds - Inhalation: YES

Skin: YES Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: EYE: NOT READILY ABSORBED THROUGH MUCOUS MEMBRANE OR TISSUE OF EYE, HOWEVER, MAY CAUSE FROSTBITE IF EXPOSED TO DIRECT SPRAY. SKIN: NOT READILY ABSORBED THROUGH SKIN, HOWEVER, MAY CAUSE FROSTBITE IF EX POSED TO DIRECT SPRAY. INHALATION: MAY CAUSE NARCOSIS IN CONCENTRACTIONS ABOVE 1000 PPM. PERSONS WITH CARDIAC ARRHYTHMIA MAY BE AT INCREASED RISK IN SEVERE E

XPOSURES. MAY CAUSE ASPHYXIATION IN HIGH CO NCENTRATIONS. INGESTION: NOT LIKELY DUE TO LOW TOXICITY AND EXISTENCE AS A GAS.

Explanation Of Carcinogenicity: NONE PROVIDED BY MFR.

Signs And Symptions Of Overexposure: FROSTBITE, NARCOSIS, ARRYTHMIA, UNCONSCIOUSNESS OR PARALYSIS IF EXPOSED TO HIGH CONCENTRATION.

Medical Cond Aggravated By Exposure: PERSONS WITH CARDIAC ARRHYTHMIA MAY BE AT INCREASED RISK IN SEVERE EXPOSURE.

First Aid: EYE: MAY CAUSE FROSTBITE; FLUSH WITH WATER FOR 15 MINS, GET MEDICAL

ATTENTION IF IRRITATION PERSISTS. SKIN: MAY CAUSE FROSTBITE; FLUSH WITH WATER, GET MEDICAL ATTENTION OF REDDENING OF SKIN DEVELOPS. INHALATION: REMOVE FROM CONTAMINATED AREA; APPLY OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED AND GET MEDICAL ATTENTION. INGESTION: COMPOUND NOT NORMALLY CONS IDERED HAZARDOUS BY INGESTION. GET MEDICAL ATTENTION AS NECESSARY.

Handling and Disposal

Spill Release Procedures: STOP DISCHARGE IF POSSIBLE. KEEP PEOPLE AWAY.

Neutralizing Agent: NONE PROVIDED BY MFR.

Waste Disposal Methods: DO NOT VENT TO AIR. SEND FOR RECLAMATION/RECYCLING OR TO AN EPA APPROVED INCINERATOR.

Handling And Storage Precautions: STORE IN WELL-VENTILATED, DRY AREA (BELOW 125 DEG F). CONTACT WITH FLAMES OR HIGH TEMPERATURES SHOULD BE AVOIDED.

Other Precautions: NONE PROVIDED BY MFR.

Fire and Explosion Hazard Information

Flash Point Text: NONE Lower Limits: NONE Upper Limits: NONE

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures: MAY DECOMPOSE TO FORM HALOGEN ACID AND/OR PHOSGENE AT TEMPERATURES ABOVE 600 DEG C. SELF CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF CONTAINERS RUPTURE AND CONTENTS ARE SPILLED UNDER FIRE COND

ITIONS.

Unusual Fire

/Explosion Hazard: MAY RELEASE TOXIC DECOMPOSITION PRODUCTS, SUCH AS, HALOGEN ACID AND PHOSGENE.

Control Measures

Respiratory Protection: ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINE. WHERE THE EXPOSURE GUIDELINE MAY BE GREATLY EXCEEDED, USE AN APPROVED POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS. IN CON

FINED OR POORLY VENTILATED AREAS, USE AN

APPROVED POSITIVE SELF CONTAINED

BREATHING APPARATUS.

Ventilation: CONTROL AIRBORNE CONCENTRATIONS BELOW THE EXPOSURE GUIDELINES. USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST MAY BE NECESSARY FOR SOME OPERATIONS.

Protective Gloves: BUTYL RUBBER

Eye Protection: USE SAFETY GLASSES WITH SIDESHIELDS OR MONOGOGGLES

Other Protective Equipment: FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. WHEN PROLONGED OR FREQUENTLY

REPEATED CONTACT SHOULD

OCCUR, USE PROTECTIVE CLOTHING SUCH AS BUTYL RUBBER.

Work Hygienic Practices: NONE PROVIDED BY MFR.

Supplemental Safety and Health: USE IN A WELL VENTILATED AREA, AWAY FROM OPEN FLAMES AND HOT SURFACES.

Physical/Chemical Properties

HCC: G3

Boiling Point: =-40.6C, -41.4F M.P/F.P Text: NOT PROVIDED Decomp Text: NOT PROVIDED

Vapor Pres: 7036 MMHG@70 F (ABSOLUTE)

Vapor Density: 3.0(AIR

=1)

Spec Gravity: 1.15 (WATER=1.0) Viscosity: NOT PROVIDED

Evaporation Rate & Dr. Reference: >1

Solubility in Water: 0.30%

Appearance and Odor: COLORLESS LIQUIFIED COMPRESSED GAS, FAINT ETHEREAL ODOR

Percent Volatiles by Volume: 100% Corrosion Rate: NOT PROVIDED

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: MATERIAL IS GENERALLY CONSIDERED STABLE, HOWEVER,

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VOID OPEN FLAMES AND HIGH TEMPERATURES. Materials To Avoid: NO KNOWN REACTION WITH COMMON MATERIALS. Hazardous Decomposition Products: MAY DECOMPOSE TO HALOGEN ACIDS OR PHOSGENE AT TEMPERATURES ABOVE 600 DEG C. Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: NOT PERTINENT ______ **Toxicological Information** _____ Toxicological Information: NON-IRRITATING TO EYES AND THROA T, LIQUID MAY CAUSE FROSTBITE. LC50 (RAT) 4 HR =220,000 PPM. ______ Ecological Information ______ Ecological: SEC 302 RQ= NONE. _____ MSDS Transport Information _____ Transport Information: PSN: CHLORODIFLUOROMETHANE, 2.2, UN1018. ______ Regulatory Information ______ Sara Title III Information: SEC 302 EXTREMELY HAZARDOUS SUBSTANCE: NONE. SEC 311/312 HAZ CATEGORIES: ACUTE HEALTH PRESSURE HAZARD. SEC 313 TOXIC CHEMICL: YES, EFFECTIVE JAN 01, 1994. CERCLA SUPERFUND, 40NCFR 117, 302: THIS PROD UCT CONTAINS NO REPORTABLE QUANTITY SUBSTANCE. Federal Regulatory Information: THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY. PER HAZ COM RULE 29 CFR 1910.1200 CHLORODIFLUOROMETHANE IS CONSIDERED A HAZARDOUS MATERIAL. State Regulatory Information: CALIFORNIA PROP 65: REPRODUCTIVE= NO; CARCINOGEN= NO. ______ Other Information _____ Other Information: REASON FOR REVISION OF MSDS: ADDITION OF NIOSH RELS; NEW FORMAT OF MSDS: SUPERSEDES MSDS DATED 08/15/1994. ______ Transportation Information

Responsible Party Cage: 0YFW2

Trans ID NO: 151560

Product ID: R-22; HCFC-22; REFRIGERANT 22

MSDS Prepared Date: 02/01/1997

Review Date: 02/17/2000

MFN: 1

Net Unit Weight: 30 LB Multiple KIT Number: 0 Unit Of Issue: CY

Container QTY: 1

Type Of Container: DISPO CYLINDR

Detail DOT Information

DOT PSN Code: DHC

DOT Proper Shipping Name: CHLORODIFLUOROMETHANE, OR RE

FRIGERANT GAS R22 Hazard Class: 2.2

UN ID Num: UN1018

Label: NONFLAMMABLE GAS

Special Provision: B51 Non Bulk Pack: 304 Bulk Pack: 314,315 Max Qty Pass: 75 KG Max Qty Cargo: 150 KG Vessel Stow Reg: A

Detail IMO Information

IMO PSN Code: EDB

IMO Proper Shipping Name: CHLORODIFLUOROMETHANE

IMDG Page Number: 2118

UN Number: 1018

UN Hazard Class: 2(2.2) IMO Packaging Group: -

Subsidiary R isk Label: -

EMS Number: 2-09

MED First Aid Guide NUM: 350

Detail IATA Information

IATA PSN Code: GHQ IATA UN ID Num: 1018

IATA Proper Shipping Name: CHLORODIFLUOROMETHANE

IATA PSN Modifier: (R22)

IATA UN Class: 2.2

IATA Label: NON-FLAMMABLE GAS

Packing Note Passenger: 200 Max Quant Pass: 75KG Max Quant Cargo: 150KG

Packaging Note Cargo: 200

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Detail AFI Information

AFI PSN Code: GHQ

AFI Proper Shipping Name: CHLORODIFLUOROMETHANE

AFI Hazard Class: 2.2 AFI UN ID NUM: UN1018 Special Provisions: P5

Back Pack Reference: A6.3, A6.5

HAZCOM Label

Product ID: R-22; HCFC-22; REFRIGERANT 22

Cage: 0YFW2

Company Name: LAROCHE CHEMICALS INC

Street: 1134 JEFFERSON HWY

PO Box: 5500

City: GRAMERCY LA

Zipcode: 70052

Health Emergency Phone: 800-528-4963

Label Required IND: Y

Date Of Label Review: 02/17/2000

Status Code: A Year Procured: 2000 Origination Code: F Eye Protection IND: YES Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None

Hazard And Precautions: EYE/SKIN: MAY CAUSE FROSTBITE IF EXPOSED TO DIRECT SPRAY. INHALATION: MAY CAUSE NARCOSIS & amp; ASPHYXIATION IN CONC

ENTRACTIONS

ABOVE 1000 PPM. PERSONS WITH CARDIAC ARRHYTHMIA MAY BE AT INCREASED RISK IN SEVERE EXPOSURES. INGESTION: UNLIKELY. FIRST AID: EYE: FLUSH WITH WATER FOR 15 MINS, GET MEDICAL ATTENTION. SKIN: FLUSH WITH WATER, GET MEDICAL ATTENTION. INHALATION: REMOVE FROM CONTAMINATED AREA; GIV E OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF BREATHING HASSTOPPED AND GET MEDICAL ATTENTION. INGESTION: COMPOUND NOT NORMALLY CONSIDERED HAZARDOUS BY INGESTION. GET MEDICAL A

TTEN TION AS NECESSARY.

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