LAROCHE CHEMICALS INC -- HFC-134 A,R-134 A

MSDS Safety Information

FSC: 6830

NIIN: 01-370-6207 MSDS Date: 08/15/1994 MSDS Num: CCCJH

Product ID: HFC-134 A,R-134 A

MFN: 01

Responsible Party Cage: 0YFW2

Name: LAROCHE CHEMICALS INC Address: 1134 JEFFERSON HWY

Box: 5500

City: GRAMERCY LA 70052

Info Phone Number: 504-869-2365/800-248-6336

Emergency Phon

e Number: 800-528-4963/800-424-9300(CHEMTREC)

Preparer's Name: UNKNOWN

Review Ind: Y Published: Y

Contractor Summary

Cage: 0YFW2

Name: LAROCHE CHEMICALS INC Address: 1134 JEFFERSON HWY

Box: 5500

City: GRAMERCY LA 70052

Phone: 800-528-4963

Item Description Information

Item M anager: S9G

Item Name: TETRAFLUOROETHANE, TECHNICAL

Specification Number: NONE Type/Grade/Class: TYPE R-134

Unit of Issue: CY

Quantitative Expression: 00000000043LB

UI Container Qty: 0

Type of Container: CYLINDER

Ingredients

Cas: 811-97-2

Name: 1,1,1,2-TETRAFLUOROETHANE (HFC-134A)

% Wt: 99.9

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED ACGIH TLV: NOT ESTABLISHED

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Health Hazards Data

LD50 LC50 Mixture: LD50 (ORAL, RAT) IS NOT KNOWN.

Route Of Entry Inds - Inhalation: YES

Skin: NO Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: TARGET ORGANS:EYE, SKIN, RESPIRATORY TRACT, HEART. ACUTE-OVEREXPOSURE BY INHALATION TO VERY HIGH CONCENTRATIONS MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID CONTACT/ESC

APING VAPOR S CAN

CAUSE EYE AND SKIN FROSTBITE. INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE. CHRONIC- UNKNOWN.

Explanation Of Carcinogenicity: NONE

Signs And Symptions Of Overexposure: FROSTBITE, ASPHYXIATION, IRRITATION, HEART IRREGULARITIES, UNCONSCIOUSNESS, DEATH

Medical Cond Aggravated By Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE CENTRAL NERVOUS SYSTEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

Firs

t Aid: EYE:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN:FLUSH WITH WATER FOR 15 MINUTES. TREAT FOR FROSTBITE BY SLOWLY WARMING UP THE EXPOSED AREA. CALL PHYSICIAN. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY. CALL A PHYSICIAN. ORAL:INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

Handling and Disposal

Spil

I Release Procedures: WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. STOP DISCHARGE IF POSSIBLE.

Neutralizing Agent: NOT RELEVANT

Waste Disposal Methods: THIS IS NOT A LISTED HAZARDOUS WASTE. DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. RECYCLE IF POSSIBLE. IF NOT, SEND TO AN EPA APPROVED INCINERATOR.

Handling And Storage Precautions: STORE IN COOL, VENTILATED, DRY AREA AWAY FR

OM

FLAMES AND INCOMPATIBLE MATERIALS. AVOID TEMPERATURES ABOVE 125 F (52C). Other Precautions: AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION. DO NOT MIX WITH AIR FOR LEAK TESTING ABOVE ATMOSPHERIC PRESSURE. K EEP OUT OF REACH OF CHILDREN.

Fire and Explosion Hazard Information

Flash Point Tex

t: NONE

Extinguishing Media: WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: CYLINDERS MAY RUPTURE. DECOMPOSITION MAY OCCUR FORMING TOXIC GASES. COMBUSTIBLE AT PRESSURE AS LOW AS 5.5 PSIG AT 351F (177C) WHEN MIXED WI

TH AIR >60%.

Control Measures

Respiratory Protection: NOT NORMALLY REQUIRED. WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE OR SUPPLIED-AIR RESPIRATOR IF A LARGE RELEASE OCCURS.

Ventilation: NORMAL VENTILATION. LOCAL EXHAUST NEEDED WHEN LARGE AMOUNTS ARE RELEASED.

Protective Gloves: LINED BUTYL WHEN HANDLING LIQUID

Eye Protection: CH

EMICAL SPLASH GOGGLES WHEN HANDLE LIQ.

Other Protective Equipment: EYEBATH, SAFETY SHOWER, PROTECTIVE CLOTHING Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES.

Physical/Chemical Properties

HCC: G3

NRC/State LIC No: NOT RELEVANT

B.P. Text: -16F,-27C M.P/F.P Text: UNKNOWN Decomp Text: UNKNOWN Vapor Pres: 4963 @ 77F Vapor Density: 3.2

Spec Gr

avity: 1.21 (LIQUID) Viscosity: NOT RELEVANT Evaporation Rate & Evaporation R Solubility in Water: 0.15% Appearance and Odor: COLORLESS LIQUEFIED GAS - FAINT ETHEREAL ODOR Percent Volatiles by Volume: 100 Corrosion Rate: UNKNOWN Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: OPEN FLAME, HIGH TEMPERATURES, GLOWING METAL

SURFACES Materials To Avoi

d: ALKALI OR ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC,

BERYLLIUM (BE)

Hazardous Decomposition Products: MAY FORM HYDROGEN FLUORIDE AND POSSIBLY

CARBONYL FLUORIDE.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

Toxicological Information

Ecological Information

MSDS Transport Information

Regulatory Information

Other Information

Т

ransportation Information

Responsible Party Cage: 0YFW2

Trans ID NO: 130061

Product ID: HFC-134 A,R-134 A MSDS Prepared Date: 08/15/1994

Review Date: 11/06/1996

MFN: 1

Radioactivity: NOT RELEVANT

Net Unit Weight: 43 LBS Multiple KIT Number: 0

Review IND: Y Unit Of Issue: CY Container QTY: 0

Type Of Container: CYLINDER

Additional Data: PER MSDS, DOMESTIC SHIPMENTS OF R-134A, PROPER SHIPING NAME:

REFRIGERANT GAS, N. O. S. (1,1,1,2-TETR AFL

UOROETHANE), HAZARD CLASS: 2.2,

IDENTIFICATION NUMBER: UN1078. INTERNATIONAL, PROPER SHIPPING NAME:

1,1,1,2-TETRAFLUOROETHANE AND UN ID NUMBER: UN3159.

Detail DOT Information

DOT PSN Code: OAB

DOT Proper Shipping Name: 1, 1, 1, 2-\$TETRAFLUOROETHANE OR REFRIGERANT GAS R

134A

Hazard Class: 2.2 UN ID Num: UN3159

Label: NON-FLAMMABLE GAS Packaging Exception: 306

Non Bulk Pack: 304

В

ulk Pack: 314,315 Max Qty Pass: 75 KG Max Qty Cargo: 150 KG Vessel Stow Req: A

Detail IMO Information

IMO PSN Code: OKL

IMO Proper Shipping Name: 1,1,1,2-\$TETRAFLUOROETHANE

IMDG Page Number: 2181

UN Number: 3159

UN Hazard Class: 2(2.2) IMO Packaging Group: -Subsidiary Risk Label: -EMS Number: 2-09

MED First Aid Guide NUM: 350

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etail IATA Information

IATA PSN Code: XRL IATA UN ID Num: 3159

IATA Proper Shipping Name: 1,1,1,2-\$TETRAFLUOROETHANE

IATA PSN Modifier: (R134A)

IATA UN Class: 2.2

IATA Label: NON-FLAMMABLE GAS

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

Detail AFI Information

AFI PSN Code:

XRL

AFI Proper Shipping Name: 1,1,1,2-\$TETRAFLUOROETHANE

AFI PSN Modifier: (R134A) AFI Hazard Class: 2.2 AFI UN ID NUM: UN3159 Special Provisions: P5

Back Pack Reference: A6.3, A6.5

HAZCOM Label

Product ID: HFC-134 A,R-134 A

Cage: 0YFW2

Company Name: LAROCHE CHEMICALS INC

Street: 1134 JEFFERSON HWY

PO Box: 5500

City: GRAMERCY LA

Zipcode: 70052

Health Emergency Phone: 800-528-4963/800-

424-9300(CHEMTREC) Label Required IND: Y

Date Of Label Review: 11/06/1996

Status Code: C

MFG Label NO: UNKNOWN

Label Date: 11/06/1996 Origination Code: F

Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Health Hazard: Moderate

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS:EYE, SKIN, RESPIRATORY TRACT, HEART.

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NLIKELY.

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