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Material safety data sheet

Name: CHLORODIFLUOROMETHANE(R-22)

DATE: 2012-1-1

Cas: 75-45-6

Health Hazards Data

LD50 LC50 Mixture: 2 HR LC50 (RAT) = 200,000 PPM

Route Of Entry Inds - Inhalation: YES

Effects of Exposure: ACUTE: CONTACT WITH VAPOR MAY CAUSE EYE AND SKIN IRRITATION. CONTACT WITH LIQUID MAY CAUSE FROSTBITE. INHALATION OF HIGH CONCENTRATIONS MAY CAUSE ASPHYXIATION; MAY CAUSE SENSITIVITY TO ADRENALIN, PRODUCING HEART EFFECTS. CHRONIC: NONE KNOWN.

Explanation Of Carcinogenicity: MONOCHLORODIFLUOROMETHANE IS NOT LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA.

Signs And Symptoms Of Overexposure: SKIN: REDNESS, DISCOMFORT. EYES: REDNESS, PAIN, DISCOMFORT. INHALED: DROWSINESS, UNCONSCIOUSNESS, RESPIRATORY DEPRESSION, RAPID HEARTBEAT, IRREGULAR HEARTBEAT AND DEPRESSION OF CARDIAC FUNCTION. FROST BITE: BURNS, PAIN, REDNESS, POSSIBLE BLISTERS; SKIN MAY TURN WHITE.

Medical Cond Aggravated By Exposure: PERSONS WITH PRE-EXISTING HEART DISEASE MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid: EYES: FLUSH WITH PLENT OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: GET MEDICAL ATTENTION. IF FROSTBITTEN, WARM SKIN SLOWLY WITH WATER. INHALATION: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. GIVE OXYGEN IF BREATHING DIFFICULT. GET MEDICAL ATTENTION. INGESTED: NONE SPECIFIED.

Handling and Disposal

Spill Release Procedures: KEEP UPWIND. EVACUATE ENCLOSED SPACES. REMOVE OR EXTINGUISH IGNITION OR COMBUSTION SOURCES (DECOMPOSITION PRODUCTS). STOP LEAK IF POSSIBLE. VENTILATE AREA.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: RECYCLE OR RECLAIM IF POSSIBLE. RECLAIMED MATERIAL MAY BE INCINERATED BUT TOXIC AND CORROSIVE COMBUSTION PRODUCTS (HF & HCL) MUST BE HANDLED APPROPRIATELY. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions: STORE IN TIGHTLY CLOSED CONTAINERS. KEEP CONTAINERS OUT OF DIRECT SUNLIGHT. KEEP AWAY FROM SOURCES OF HEAT AND OPEN IGNITION SOURCES.

Other Precautions: DO NOT GET IN EYES, ON SKIN OR CLOTHES. DO NOT BREATHE VAPOR OR GAS.

Fire and Explosion Hazard Information

Flash Point Text: NONFLAMMABLE

Autoignition Temp Text: 1170F

Extinguishing Media: MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE GEAR DUE TO TOXICITY OF THERMAL DECOMPOSITION PRODUCTS. USE WATER FOG TO KEEP CONTAINERS COOL.

Unusual Fire/Explosion Hazard: MAY DECOMPE DURING HEATING OR FIRE; RELEASING TOXIC AND CORROSIVE GASES. CONTAINER MAY EXPLODE IF HEATED DUE TO PRESSURE RISE.

Control Measures

Respiratory Protection: IF ENGINEERING CONTROLS FAIL, NON-ROUTINE USE OR EMERGENCY OCCURS; USE USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1901.134.

Ventilation: USE ADEQUATE MECHANICAL VENTILATION.

Protective Gloves: RUBBER

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment: CLOTHING TO PREVENT CONTACT IF LIQUID.

Work Hygienic Practices: WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING.

Supplemental Safety and Health:R-22 IS NOT MUTAGENIC IN MAMMALIAM TEST SYSTEMS BUT IS MUTAGENIC TO BACTERIA (AMES TEST). WORKPLACE AIR SHOULD BE MONITORED TO ASSURE THAT TLV ARE NOT EXCEEDED.

Physical/Chemical Properties

HCC: G3

B.P. Text: -410.8C

Vapor Pres: 7033 MM HG

Vapor Density: 3.0(AIR=1)

Spec Gravity: 1.18 (WATER=1)

Solubility in Water: SLIGHT

Appearance and Odor: CLEAR, COLORLESS, LIQUIFIED GAS WITH FAINT ETHER-LIKE ODOR

Percent Volatiles by Volume: 100

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: DO NOT EXPOSE PRODUCT TO TEMPERATURES GREATER THAN 800F. CONTACT WITH INCOMPATIBLE MATERIALS.

Materials To Avoid: STRONG ALKALIS, ALKALI EARTH METALS, FINELY DIVIDED METAL POWDERS, AND STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products: THERMAL DECOMPOSITION PRODUCTS INCLUDE HYDROGEN FLUORIDR, HYDROGEN CHLORIDE, CHLORINE, CARBON MONOXIDE, & CARBON DIOXIDE

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NONE

Transportation Information

Responsible Party Cage: 0L2W7

Trans ID NO: 47719

Product ID: R22

MFN: 1

Tech Entry NOS Shipping Nm: CHLORODIFLUOROMETANE

Unit Of Issue: CY
Type Of Container: CYLINDER, DISP

Detail DOT Information

DOT PSN Code: DHC
DOT Proper Shipping Name: CHLORODIFLUOROMETHANE, OR REFRIGERANT GAS R22
Hazard Class: 2.2
UN ID Num: UN1018
Label: NONFLAMMABLE GAS

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 Risk 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

Detail AFI Information

AFI PSN Code: GHQ
AFI Proper Shipping Name: CHLORODIFLUOROMETHANE
AFI Hazard Class: 2.2
AFI UN ID NUM: UN1018

Fire Hazard: None
Reactivity Hazard: None

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