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Product ID:NATIONAL REFRIGERANT 500 MSDS Date:01/01/1987 FSC:6830 NIIN:01-137-7971 MSDS Number: BJZKW === Responsible Party === Company Name:NATIONAL REFRIGERANTS, INC. Address:11401 ROOSEVELT BLVD. City:PHILADELPHIA State:PA ZIP:19154 Country:US Info Phone Num:609-455-4555/800-424-9300 C HEMTREC Emergency Phone Num:609-455-4555/800-424-9300 CHEMTREC CAGE:7Y146 === Contractor Identification === Company Name:NATIONAL REFRIGERANTS INC Address:661 KENYON AVE Box:City:BRIDGETON State:NJ ZIP:08302 Country:US Phone:800-262-0012/215-698-6620 CAGE:4J994 Company Name:NATIONAL REFRIGERANTS INC Address:11401 ROOSEVELT BLVD Box:City:PHILADELPHIA State:PA ZIP:19154 Country:US Phone:215-834-0200 CAGE:7Y146

Ingred Name:DICHL

ORODIFLUOROMETHANE (SARA III) CAS:75-71-8 RTECS #:PA8200000 Fraction by Wt: 73.8% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS **Ozone Depleting Chemical:1** Ingred Name:1,1-DIFLUOROETHANE CAS:75-37-6 RTECS #:KI1410000 Fraction by Wt: 23.2% Other REC Limits:NONE SPECIFIED LD50 LC50 Mixture:LC 50 ORAL RAT >800,000 MG/KG (CCL2F2) Routes of Entry: Inhalation:Y ES 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 B REATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. SKIN/EYE: IRRITATION AND FROSTBITE. Explanation of Carcinogenicity:DICHLORODIFLUORO METHANE (FREON 12) 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 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 PARTICULARY CAREFUL TO AVOID OVEREXPOSURE TO THESE VAPORS.

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.

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.
Fire Fighting 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: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

======= Accidental Relea

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 Precautions:STORE IN A CLEAN, COOL, DRY AND WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAM

AGE 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.

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 AVOID BREATHING OF VAPORS AND CONTACT WITH EYES/SKIN.

=================== Physical/Chemical Prope

HCC:G3 Boiling Pt:B.P. Text:-28F,-33C Vapor Pres:232 @54C Vapor Density:3.7 AIR=1 Spec Gravity:1.16 Evaporation Rate & amp; Reference:>1 CCL4=1 Solubility in Water:NEGLIGIBLE Appearance and Odor: CLEAR LIQUIFIED GAS; COLORLESS; SLIGHT ETHEREAL ODOR Percent Volatiles by Volume:100 Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, ALKALI OR ALKALINE EARTH METALS, POWDERED AL, Ζ N, BE ETC. Stability Condition to Avoid: HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION Hazardous Decomposition Products: DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS. Waste Disposal Methods: BEST TO RECYCLE OR RECLAIM, IF POSSIBLE. WASTE MATERIAL IS A LAND-BANNED HAZARDOUS WASTE (CODE U075). CONSULT FEDERAL, STATE, OR LOCAL AUTHO

RITIES FOR PROPER DISPOSAL PROCEDURES.

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