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NATIONAL REFRIGERANTS INC -- DICHLOROTETRAFLUOROETHANE REFRIGERANT 114 6830-00-000-0197

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

Product ID:DICHLOROTETRAFLUOROETHANE REFRIGERANT 114

MSDS Date:09/01/1995

FSC:6830

NIIN:00-000-0197

MSDS Number: BZQVH === Responsible Party ===

Company Name: NATIONAL REFRIGERANTS INC

Address:11401 ROOSEVELT BLVD

City:PHILADELPHIA

State:PA ZIP:19154 Country:US Info Phone N um:609-455-4555

Emergency Phone Num:609-455-4555(CHEMTREC 800-424-9300)

Preparer's Name: M. BEATTY/G. WILSON

CAGE:7Y146

=== Contractor Identification ===

Company Name: NATIONAL REFRIGERANTS INC

Address:11401 ROOSEVELT BLVD

Box:City:PHILADELPHIA

State:PA ZIP:19154 Country:US

Phone:215-834-0200

CAGE:7Y146

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

Ingred Name: DICHLOROTETRAFLUOROETHANE (SARA 313)

CAS:76-14-2

RTECS #:KI1101000 Fraction by Wt: 100%

Other REC Limits: NONE RECO

MMENDED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9596 Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2250 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALATION OR INGESTION MAY BE HARMFUL CAUSING TEMPORARY CNS DEPRESSION, HEART IRREGULARITIES; GROSS OVEREXPOSURE MAY CAUSE ABNORMAL LIVER FUNCTI

ON. EXPOSURE MAY

CAUSE SKIN & EYE IRRITATION. CH RONIC: NONE SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity: THIS PRODUCT IS NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN, MUTAGEN, TERATOGEN OR NEUROTOXIN.

Effects of Overexposure:INHALED/INGESTED-DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, IRREGULAR PULSE/PALPITATIONS/INADEQUATE CIRCULATION. EYES-IRRITATION. SKIN-IRRITATION.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXI STING

DISEASES OF THE CENTRAL NERVOUS SYSTEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:EYES-FLUSH WITH WATER FOR 15 MINUTES. SEE A PHYSICIAN.
SKIN-REMOVE CONTAMINATED CLOTHES. FLUSH WITH WATER. SEE A PHYSICIAN
IF IRRITATION PERSISTS. INHALED-REMOVE TO FRESH AIR. ADMINISTER
OXYGEN OR ART IFICIAL RESPIRATION AS NEEDED. CALL A PHYSICIAN.

INGESTED-DO NOT INDUCE VOMITING! CALL A PHYSICIAN.

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

Flash Point:NONE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:IF CYLINDERS RUPTURE, WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR. USE WATER TO COOL FIRE EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard: CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

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====== Accidental Release Measures =========== Spill Release Procedures: VENTILATE AREA. USE SELF-CONTAINED BREATHING APPARATUS IN CASE OF LARGE SPILLS. COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS ON REPORTING RELEASES. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. =========== Handling and Storage ============================ Handling and Storage Precautions: NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: STORE IN A COOL, DRY PLACE AWAY FROM INCOMPATIBLE MA TERIALS AND OPEN FLAME. Other Precautions: OZONE DEPLETING POTENTIAL: 0.05. SARA 311/312: IMMEDIATE YES. CERCLA-NONE. SARA 313-DICHLOROTETRAFLUOROETHANE. CAS# 76-14-2, 100%. SARA EHS (40CFR355)-NONE. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 **CFR 191** 0.134. Ventilation: USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S). Protective Gloves:BUTYL. Eye Protection: CHEMICAL SPLASH GOGGLES. Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER. Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health NOTE TO PHYSICIANS: BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS. SUCH AS EPINEPHRINE, SHOULD ONLY BE USED WITH

SPECIAL CAUTION IN SITUATIONS OF EMERGENCY LIFE SUPPORT.

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

HCC:G3

Boiling Pt:B.P. Text:39.0F,3.9C

Decomp Temp:Decomp Text:>1100F,>593

Vapor Pres:1573

Vapor Density: 0.987186

Spec Gravity:90.9 LB/FT3-LIQ

pH:NEUTRL

Evaporation Rate & Evaporation R

Solubility in Water: NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS, LIQUIFIED GAS; SLIGHTLY ETHEREAL ODOR.

Percent Vol

| ========= Stability and Reactivity Data =========== |
|--|
| Stability Indicator/Materials to Avoid:YES |
| ALKALÍ OR ALKALINE EARTH METALS (POWDERED ALUMINUM, ZINC, BERYLLIUM, ETC.) |
| Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES. |
| Hazardous Decomposition Products:THIS MATERIAL MAY DECOMPOSE AT HIGH |
| TEMPERATURES FORMING HYDROFLUORIC ACIDS AND POSSIBLY CARBONYL HALIDES. |
| Conditions to Avoid Polymerization:WILL NOT OCCUR. |

=== Disposal Considerations ============

atiles by Volume:100

Waste Disposal Methods:REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY.
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL
ENVIRONMENTAL REGULATIONS. CONTAINS HCFC22, A SUBSTANCE WHICH HARMS
PUBLIC HEALTH AND ENVIRONMENT BY DESTROYING OZONE IN THE UPPER
ATMOSPHERE.

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