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NATIONAL REFRIGERANTS INC -- 1,1,1,2-TETRAFLUOROETHANE -- 6830-01-412-6362

Product ID:1,1,1,2-TETRAFLUOROETHANE

MSDS Date:09/01/1995

FSC:6830

NIIN:01-412-6362

MSDS Number: CDYKG === Responsible Party ===

Company Name: NATIONAL REFRIGERANTS INC

Address:89 WATER ST City:BRIDGETON

State:NJ

ZIP:08302-2545 Country:US

Info Phone Num:609-455-4555 Emergency Phone Num:609

-455-4555, CHEMTREC 800-424-9300 Preparer's Name:M. BEATTY/G. WILSON

CAGE:4J994

=== 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

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

Ingred Name

:1,1,1,2-TETRAFLUOROETHANE CAS:811-97-2 Fraction by Wt: 100% Other REC Limits: NONE RECOMMENDED LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY TRACT, HEART. ACUTE- OVEREXPOSURE BY INHALATION TO VERY HIGH CONCENTRATIONS MAY CAUSE HEART IRRE GULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID CONTACT/ESCAPING VAPOR S CAN CAUSE EYE AND SKIN FROSTBITE. INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE. CHRONIC- UNKNOWN. **Explanation of Carcinogenicity: NONE** Effects 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 SUSC EPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES. First Aid:EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:FLUSH WITH WATER FOR 15 MINUTES. TREAT FOR FROSTBITE BY SLOWLY WARMING UP THE EXPOSED AREA. CALL PHYSICI AN. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY. CALL A PHYSICIAN. ORAL: INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOS URE. NOTE TO PHYSICIAN: CATECHOLAMINES SHOULD NOT BE USED. ============ Fire Fighting Measures =========================

Flash Point:NONE

Autoignition Temp: Autoignition Temp Text:>1382F

Lower Limits: NOT RELEVANT Upper Limits:NOT RELEVANT

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 BREATHIN

G APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard: CYLINDERS MAY RUPTURE. DECOMPOSITION MAY OCCUR FORMING TOXIC AND/OR CORROSIVE GASES. Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. SPILLS AND RELEASES MAY HAVE TO BE REPORTED TO **AUTHORITIES.** Neutrali zing Agent:NOT RELEVANT ============= Handling and Storage ========================== Handling and Storage Precautions: STORE IN COOL, VENTILATED, DRY AREA AWAY FROM DIRECT SUNLIGHT, FLAMES AND INCOMPATIBLE MATERIALS. PROTECT CYLINDERS AGAINST PHYSICAL DAMAGE. Other Precautions: AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION. DO NOT STORE ABOVE 125F/52C. KEEP OUT OF **REACH OF** CHILDR EN. ===== Exposure Controls/Personal Protection ======== 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: CHEMICAL SPLASH GOGGLES WHEN HANDLE LIQ. Other Protective Equipme nt:EYEBATH, SAFETY SHOWER, PROTECTIVE CLOTHING Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:-16F,-27C

Vapor Pres:4971 @ 77F

Vapor Density:>1

Spec Gravity:1.20 (LIQUID) Viscosity: NOT RELEVANT

Evaporation Rate & Evaporation Rate & Evaporation Rate & Reference: NOT RELEVANT (GAS)

Solubility in Water: 0.15% @ 77F

Appearance an

ODOR
Percent Volatiles by Volume:100
========= Stability and Reactivity Data ==========
Stability Indicator/Materials to Avoid:YES
ALKALÍ OR ALKALINE EARTH METALS, POWDERED ALUMINUM, MAGNESIUM, ZINC, BERYLLIUM, ETC.
Stability Condition to Avoid:OPEN FLAME, HIGH TEMPERATURES, GLOWING METAL SURFACES, LIGHTED CIGARETTES
Hazardous Decomposition Products:MAY FORM CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN FLUORID
E AND POSSIBLY CARBONYL FLUORIDE.
======= Disposal Considerations ==========
Masta Diagnosal Mathada: DICDOCE OF IN ACCORDANCE WITH LOCAL CTATE AND

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CONTRACT WITH A PERMITTED WASTE DISPOSAL FACILITY.

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d Odor:CLEAR, COLORLESS LIQUEFIED GAS - FAINT ETHERFAL