



DOD Hazardous Material Information
DOD 6050.5-L
As of April 1997

This information prepared for Cornell University convenience only.

NATIONAL REFRIGERANT 12

FSC: 6830

NIIN: 005318102

NSN: 68300053181024

MANUFACTURERS CAGE: 4J994

PART NO INDICATOR: A

PART NUMBER TRADE NAME: NATIONAL REFRIGERANT 12

Nuclear Water Data

NUCLEAR WATER FSC: DICH

NUCLEAR WATER NIIN: LORODIFLU

NUCLEAR WATER COG: OR

NUCLEAR WATER NOMENCLATURE: OMETHANE, TECHNICAL

NUCLEAR WATER REMARKS: NATIONAL R

Standard PMS Identification Data

SPIN FSC: EFRI

SPIN NIIN: GERANTS I

SPIN: NC

General Information

ITEM NAME: 89 WATER ST

MANUFACTURERS NAME: N/K BRIDGETON NJ

MANUFACTURERS STREET: US08302-2545609-455-4555, CHEMTREC 800-4

MANUFACTURERS P O BOX: 24-930

MANUFACTURERS CITY: 0609-455-4555

MANUFACTURERS STATE:

MANUFACTURERS COUNTRY:

MANUFACTURERS ZIP CODE:

MANUFACTURERS EMERG PH:

MANUFACTURERS INFO PH:

DISTRIBUTOR VENDOR 1:

DISTRIBUTOR VENDOR 1 CAGE:

DISTRIBUTOR VENDOR 2:

DISTRIBUTOR VENDOR 2 CAGE:

DISTRIBUTOR VENDOR 3: G 007010SM 01JUN8815DEC94GSAT NAPRAVA

DISTRIBUTOR VENDOR 3 CAGE:

DISTRIBUTOR VENDOR 4: NATIONAL REFRIGERANTS, INC

DISTRIBUTOR VENDOR 4 CAGE:

SAFETY DATA ACTION CODE:

SAFETY FOCAL POINT:

RECORD NO FOR SAFETY ENTRY:

TOT SAFETY ENTRIES THIS STK: 89

STATUS: WAT

DATE MSDS PREPARED: ER STRE

SAFETY DATA REVIEW DATE: ET

SUPPLY ITEM MANAGER:

MSDS PREPARERS NAME: BRIDGETO

PREPARERS COMPANY: N NJ08302

PREPARERS ST OR P O BOX:

PREPARERS CITY: BNCFCBB-F-1421 TYPE 12

PREPARERS STATE:

PREPARERS ZIP CODE: G3

OTHER MSDS NUMBER: LB150 LB CY METAL 150 LBS

MSDS SERIAL NUMBER: N/K

SPECIFICATION NUMBER: N/K N/

SPEC TYPE GRADE CLASS: K N/KCLEAR, COLOR

HAZARD CHARACTERISTIC CODE: LESS,

UNIT OF ISSUE: L

UNIT OF ISSUE CONTAINER QTY: IQUIFIED GAS,

TYPE OF CONTAINER: SLIGHT ETHER

NET UNIT WEIGHT: EAL ODOR.

NRC STATE LICENSE NUMBER:

NET EXPLOSIVE WEIGHT:

NET PROPELLANT WEIGHT AMMO: -22F,

COAST GUARD AMMUNITION CODE: -30

Physical & Chemical Characteristics

APPEARANCE AND ODOR: C N/K 94.5 PSIA 4.26 @ 25C 1.315 G/CC @25C >1400F, >760N/K

BOILING POINT: 0.028

MELTING POINT: WT% @1ATM &

VAPOR PRESSURE MM HG 70 F: 25C 100 N

VAPOR DENSITY AIR 1: /K

SPECIFIC GRAVITY: NEUTRL N/K

DECOMPOSITION TEMPERATURE:

EVAPORATION RATE AND REF: N/P N/K >760C WILL

SOLUBILITY IN WATER: NOT BURN N/P N/

PERCENT VOLATILES BY VOLUME: K

VISCOSITY: N/K

PH: AS

RADIOACTIVITY: APPROPRIATE

FORM RADIOACTIVE MATL: FOR COMB

MAGNETISM MILLIGAUSS: USTIB

CORROSION RATE IPY: LES IN A

AUTOIGNITION TEMPERATURE: REA.

Fire and Explosion Hazard Data

FLASH POINT:

FLASH POINT METHOD:

LOWER EXPLOSIVE LIMIT:

UPPER EXPLOSIVE LIMIT:

EXTINGUISHING MEDIA: SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF CYLINDERS RUPTURE AND CONTENTS

SPECIAL FIRE FIGHTING PROC: ARE RELEASED UNDER FIRE CONDITIONS. USE WATER SPRAY OR FOG TO COOL CONTAINERS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS.

UNUSUAL FIRE AND EXPL HAZRDS: DECOMPOSITION MAY OCCUR. YES AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Reactivity Data**STABILITY:**

COND TO AVOID STABILITY: ALKALI OR ALKALINE EARTH METALS--POWDERED AL, ZN, BE, ETC.

MATERIALS TO AVOID: HYDROCHLORIC AND HYDROFLUORIC ACIDS-- POSSIBLY CARBONYL HALIDES.

HAZARDOUS DECOMP PRODUCTS: NO N/K

HAZARDOUS POLY OCCUR:

CONDITIONS TO AVOID POLY: INHAL 30 MIN LC50: 800,000 PPM (RAT) *
YES YES YES OVER EXPOSURE BY INHALATION, INGESTION,

Health Hazard Data

LD50 LC50 MIXTURE: OR SKIN OR EYE CONTACT MAY INITIALLY INC

ROUTE OF ENTRY INHALATION: LUD

ROUTE OF ENTRY SKIN: E:

ROUTE OF ENTRY INGESTION: TEM

HEALTH HAZ ACUTE AND CHRONIC: PORARY DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, TEMPORARY ALTERATION OF HEART'S ELECTRICAL ACTIVITY W/IRREGULAR PULSE, PALPITATIONS OR INADEQUATE CIRCULATION; OR EFFECTS OF EXCLUSION OF OXYGEN WITH ** NO NO NO NOT LISTED AS A CARCINOGEN BY IARC, NTP, OSHA, OR ACGIH. *

CARCINOGENICITY NTP: ORAL ALD:

CARCINOGENICITY IARC: 1000 MG/K

CARCINOGENICITY OSHA: G IN RATS.

EXPLANATION CARCINOGENICITY: ** GROSSLY EXCESSIVE EXPOSURE.
SIGNIFICANT SKIN PERMEATION AFTER CONTACT APPEARS UNLIKEL

SIGNS SYMPTOMS OF OVEREXP: Y. THERE ARE NO REPORTS OF HUMAN SENSITIZATION. THE COMPOUND IS NOT A SKIN IRRITANT, IS A MILD EYE IRRITANT, AND IS UNTESTED FOR ANIMAL SENSITIZATION. TOXIC EFFECTS IN ANIMALS: EXCLUSION OF OXYGEN, NON SPECIFIC EFFECTS. N/K

MED COND AGGRAVATED BY EXP: INHAL: REMOVE TO FRESH AIR. IF NOT BREATH, GIVE ARTIF RESP, PREFER MOUTH TO MOUTH. IF BR

EMERGENCY FIRST AID PROC: EATH DIFFICULT, GIVE OXYGEN. CALL DR. SKIN: FLUSH W/WATER. TREAT FOR FROSTBITE IF NECESSARY. EYE: IMMED FLUSH W/WATER. CALL DR. INGESTED: CONSULT DR IF NECESSARY. NOTE TO PHYSICIANS: BECAUSE OF POSSIBLE DISTURBANCE OF CARDIAC RHYTHM, USE CATECHOLAMINE DRUGS (EPINEPHRINE) W/CAUTION FOR EMERGENCY LIFE SUPPORT. VENTILATE AREA--ESPECIALLY LOW PLACES WHERE HEAVY VAPOR MIGHT COLLECT. REMOVE OPEN FLAME

Precautions for Safe Handling and Use

STEPS IF MATL RELEASED SPILL: S. USE SCBA FOR LARGE SPILLS. N/K COMPLY W

NEUTRALIZING AGENT: ITH FEDERAL, STATE AND LOCAL REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO A

WASTE DISPOSAL METHOD: PERMITTED WASTE FACILITY. AVOID BREATHING VAPORS AND LIQUID CONTACT WITH SKIN OR EYES. USE ONLY IN WELL VENTILATED

PRECAUTIONS HANDLING STORING: AREA. N/K

OTHER PRECAUTIONS: UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING

Control Measures

RESPIRATORY PROTECTION: THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A LARGE RELEASE OCCURS. NORMAL VENT FOR STD

MFR GENERALLY ADEQUATE. USE LOCAL EXHAUST WHEN LRG AMTS RELEASED. ME

VENTILATION: CHANICAL VENT FOR LOW PLACES. LINED BUTYL GLOVES. CHEM
SPLASH GOGGLES WHEN HANDLING LIQUIDN/K

PROTECTIVE GLOVES:

EYE PROTECTION:

OTHER PROTECTIVE EQUIPMENT: N/K

WORK HYGIENIC PRACTICES: N/K

SUPPL SAFETY HEALTH DATA: G 92160ETJ DICHLORODIFLUOROMETHANE

Transportation Data

TRANSPORTATION ACTION CODE:

TRANSPORTATION FOCAL POINT:

TRANS DATA REVIEW DATE:

DOT PSN CODE:

DOT SYMBOL:

DOT PROPER SHIPPING NAME: 2.2 UN1028 NONFLAMMABLE GAS N/K FKB
DICHLORODI

DOT CLASS: FLUOROMET

DOT ID NUMBER: HANE

DOT PACK GROUP:

DOT LABEL:

DOT DOD EXEMPTION NUMBER:

IMO PSN CODE:

IMO PROPER SHIPPING NAME: 2129 10282(2.2) - IWJ
1028DICHLORODIFLUOROMETHANE

IMO REG PAGE NUMBER:

IMO UN NUMBER:

IMO UN CLASS:

IMO SUBSID RISK LABEL:

IATA PSN CODE:

IATA UN ID NUMBER:

IATA PROPER SHIP NAME: 2.2 NON-FLAMMABLE GAS IWJ
DICHLORODIFLUOROMETHANE

IATA UN CLASS:

IATA SUBSID RISK CLASS:

IATA LABEL:

AFI PSN CODE:

AFI SYMBOLS:

AFI PROP SHIPPING NAME: 2.2 UN1028 NON-FLAMMABLE GAS

AFI CLASS:

AFI ID NUMBER:

AFI PACK GROUP: 6-6

AFI LABEL: ,6-8 NKN/K

AFI SPECIAL PROV:

AFI BASIC PAC REF:

MMAC CODE:

N O S SHIPPING NAME: N/K

ADDITIONAL TRANS DATA:

Disposal Data

DISPOSAL DATA ACTION CODE:

DISPOSAL DATA FOCAL POINT:

DISPOSAL DATA REVIEW DATE:

RECNUM FOR THIS DISP ENTR:

TOT DISP ENTRIES PER NSN:

LANDFILL BAN ITEM:

DISPOSAL SUPPLEMENTAL DAT:

EPAHAZWST 1ST CODE NEW:

EPAHAZWST 1ST NAME NEW:

EPAHAZWST 1ST CHAR NEW:

EPAACUTEHAZARD 1ST NEW:

EPAHAZWST 2ND CODE NEW:

EPAHAZWST 2ND NAME NEW:

EPAHAZWST 2ND CHAR NEW:

EPAACUTEHAZARD 2ND NEW:

EPAHAZWST 3RD CODE NEW:

EPAHAZWST 3RD NAME NEW: YES G NATIONAL REFRIGERANT 12

EPAHAZWST 3RD CHAR NEW:

EPAACUTE 3RD HAZARD NEW:

Label Data

LABEL REQUIRED:

TECHNICAL REVIEW DATE: N/P

LABEL DATE:

MFR NUMBER:

LABEL STATUS: O

COMMON NAME: VEREXPOSURE BY INHALATION, INGESTION, OR SKIN OR EYE CONTACT

CHRONIC HAZARD: MA

SIGNAL WORD: Y INITIA

ACUTE HEALTH HAZARD NONE: L

ACUTE HEALTH HAZARD SLIGHT: L

ACUTE HEALTH HAZARD MODERATE: Y

ACUTE HEALTH HAZARD SEVERE:

CONTACT HAZARD NONE: I

CONTACT HAZARD SLIGHT: N

CONTACT HAZARD MODERATE: C

CONTACT HAZARD SEVERE: L

FIRE HAZARD NONE: U

FIRE HAZARD SLIGHT: D

FIRE HAZARD MODERATE: E

FIRE HAZARD SEVERE: :

REACTIVITY HAZARD NONE:

REACTIVITY HAZARD SLIGHT: T

REACTIVITY HAZARD MODERATE: E

REACTIVITY HAZARD SEVERE: M

SPECIAL HAZARD PRECAUTIONS: PORARY DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, TEMPORARY ALTERATION OF HEART'S ELECTRICAL ACTIVITY W/IRREGULAR PULSE, PALPITATIONS OR INADEQUATE CIRCULATION; OR EFFECTS OF EXCLUSION OF OXYGEN WITH ** ** GROSSLY EXCESSIVE EXPOSURE. SIGNIFICANT SKIN PERMEATION AFTER CONTACT APPEARS UNLIKELY. THERE ARE NO REPORTS OF HUMAN SENSITIZATION. THE COMPOUND IS

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PROTECT EYE:

PROTECT SKIN:

PROTECT RESPIRATORY:

LABEL NAME: N/K PHILADELPHIA PA

LABEL STREET: 19154 US609-455-4555/800-424-9300 CH

LABEL P O BOX: EMTREC

LABEL CITY:

LABEL STATE:

LABEL ZIP CODE:

LABEL COUNTRY:

LABEL EMERGENCY NUMBER:

YEAR PROCURED:

FIRE HAZARD SEVERE: :

REACTIVITY HAZARD NONE:

REACTIVITY HAZARD SLIGHT: T

REACTIVITY HAZARD MODERATE: E

REACTIVITY HAZARD SEVERE: M

SPECIAL HAZARD PRECAUTIONS: PORARY DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, TEMPORARY ALTERATION OF HEART'S ELECTRICAL ACTIVITY W/IRREGULAR PULSE, PALPITATIONS OR INADEQUATE CIRCULATION; OR EFFECTS OF EXCLUSION OF OXYGEN WITH ** ** GROSSLY EXCESSIVE EXPOSURE. SIGNIFICANT SKIN PERMEATION AFTER CONTACT APPEARS UNLIKELY. THERE ARE NO REPORTS OF HUMAN SENSITIZATION. THE COMPOUND IS NOT A SKIN IRRITANT, IS A MILD EYE IRRITANT, AND IS UNTESTED FOR ANIMAL SENSITIZATION. TOXIC EFFECTS IN ANIMALS: EXCLUSION OF OXYGEN, NON SPECIFIC EFFECTS. NATIONAL REFRIGERANTS, INC 11401 ROOSEVELT BLVD

PROTECT EYE:

PROTECT SKIN:

PROTECT RESPIRATORY:

LABEL NAME: N/K PHILADELPHIA PA

LABEL STREET: 19154 US609-455-4555/800-424-9300 CH

LABEL P O BOX: EMTREC

LABEL CITY:

LABEL STATE:

LABEL ZIP CODE:

LABEL COUNTRY:

LABEL EMERGENCY NUMBER:

YEAR PROCURED:

Page Created 10/25/97 12:46:16 PM