

HCFC-123 REFRIGERANT

MSDS Number

BKBQM

National Stock Number

6810-00N011965

Product Name

HCFC-123 REFRIGERANT

Manufacturer

E I DUPONT DE NEMOURS AND CO INC (SEE SUPP DATA)

Product Identification

Product ID:HCFC-123 REFRIGERANT

MSDS Date:09/01/1989

FSC:6810

NIIN:00N011965

MSDS Number: BKBQM

Responsible Party

E.I. DUPONT DE NEMOURS & CO INC (SEE SUPP DATA)

CHESTNUT RUN PLAZA

WILMINGTON , DE 19880-0709

US

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Preparer: K.P. BROWN

Cage: 19898

Contractor

E.I. DUPONT DE NEMOURS & CO., INC.

1635

WILMINGTON, DE 19898

302-773-5676

Cage: 19898

Ingredients

ETHANE, 2,2-DICHLORO-1,1,1-TRIFLUORO

CAS: 306-83-2

RTECS: KI1108000

Fraction By Weight: 100%

SYS DEPRESS W/ANESTHETIC EFTS SUCH AS DIZZ, HDCH,

RTECS: 9999999ZZ

OVEREXPOS (>20%), POSS TEMP ALTERATION OF HEART'S ELEC

RTECS: 9999999ZZ

BECAUSE OF

RTECS: 9999999ZZ

DRUGS, SUCH AS EPINEPHRINE, SHOULD BE CONSIDERED ONLY AS A

RTECS: 9999999ZZ

BECAUSE DANGEROUS DECOMP PRODS MAY FORM. NO SMOKING IN

RTECS: 9999999ZZ

WELDNG, OPEN FLAMES OR HOT SURFACES; HEAT &/OR UV RADIATION

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture: LC50: INHAL, RAT: 32,000 PPM

Routes of Entry: Inhalation: YES Skin: NO Ingestion: NO

Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Health Hazards Acute and Chronic: INHAL: HIGH CONCS OF VAP IS HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCON, OR DEATH. INTENTIONAL MISUSE CAN BE FATAL. VAP REDUCES OXYGEN AVAILABLE FOR BRTHG & IS HEAVIER THAN AIR. PROD CAUSES MILD EYE IRRIT. DECOMP PRODS ARE HAZ. CMPD IS NOT SKIN IRRIT, IS A MILD EYE IRRIT/IS NOT A SKIN SENSIT IN (SEE EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT

Effects of Overexposure: HLTH HAZ: ANIMALS. TOXIC EFTS NOTED IN ANIMALS FROM EXPOS BY INHAL AT CONCS OF 10,000 PPM OR GREATER INCLUDE CNS, ANAESTHETIC, SLIGHT LIVER & NONSPECIFIC PRETERMINAL EFTS. NO ANIMAL TEST REPORTS ARE AVAILABLE TO DEFINE CARCIN OR REPRODUCTIVE HAZ. ANIMAL TESTING INDICATES THAT THIS CMPD DOES NOT HAVE (SEE SUPP DATA)

Medical Cond Aggravated by Exposure: INDIVIDUALS W/PRE-EXISTING DISEASES OF CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE EXPOSURES.

First Aid

First Aid: INHAL: IMMEDIATELY REMOVE TO FRESH AIR. KEEP CALM. SUPPORT BRTHG (GIVE O2/ARTF RESP). CALL MD. EYE: IMMEDIATELY FLUSH W/PLENTHY OF WATER FOR AT LEAST 15 MINS. CALL MD. SKIN: FLUSH W/WATER. GET MD IF IRRIT IS PRESENT. INGEST: NO SPECIFIC INTERVENTION IS INDICATED AS CMPD IS NOT LIKELY TO BE HAZ. CALL MD IF NECESSARY. DO NOT INDUCE VOMIT BECAUSE HAZ OF ASPIRATING MATL INTO LUNGS IS CONSIDERED GREATER (SEE INGRED 6)

Fire Fighting

Flash Point: WILL NOT BURN

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures: USE WATER SPRAY TO COOL CONTAINERS. WEAR NIOSH/MSHA APPROVED PRESS DEMAND SCBA & FULL PROT EQUIP IF DRUMS RUPTURE/CONTENTS SPILLED UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard: CONTAINERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR. THERMAL DECOMP PRODS MAY INCLUDE FLUORIDES, CHLORIDES & PHOSGENE .

Accidental Release

Spill Release Procedures: DIKE SPILL. PVNT LIQ FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. VENT AREA. COLLECT ON ABSORB MATL & TRANSFER TO STEEL DRUMS FOR RECOVERY/DISPOSAL. USE APPROP PERSONAL PROT EQUIP DURING CLEANUP. NOT E: REVIEW FIRE & EXPLO HAZ & SAFETY PRECFIRST.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:CLEAN, DRY AREA. DO NOT HEAT ABOVE 125F.

Other Precautions:AVOID BRTHG HIGH CONCS OF VAP. PROVIDE ADEQ VENT FOR STORAGE, HNDLG & USE, ESPECIALLY FOR ENCLOSED OR LOW SPACES. AVOID CNTCT OF LIQ W/EYES & PRLNGD SKIN EXPOS. DO NOT ALLOW PROD TO CNTCT OPEN FLAME/E LEC HEATING ELEMENTS (SEE INGRED 8)

Exposure Controls

Respiratory Protection:UNDER NORMAL MFG CONDITIONS NO RESP PROTECTION IS REQUIRED. NIOSH/MSHA APPROVED SCBA IS REQUIRED IF A LARGE SPILL OCCURS.

Ventilation:NORM VENT FOR STD MFG PROC. LOCAL EXHST SHOULD BE USED WHEN LG AMTS RELEASED. MECH VENT SHOULD BE USED IN LOW PLACES.

Protective Gloves:BUTYL GLOVES.

Eye Protection:CHEMICAL WORKERS GOGGLES .

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER USE AND BEFORE EATING, SMOKING OR USING SANITARY FACILITIES .

Supplemental Safety and Health

MFR/DIV:CHEMICALS & PIGMENTS DEPT. EFTS OF OVEREXP:EMBRYOTOXIC EFTS.

TESTS IN BACTERIAL OR MAMMALIAN CELL CULTURES DEMONSTRATE NO MUTAGENIC ACTIVITY. HUMAN HLTH EFTS OF OVEREXPOS BY EYE CNTCT MAY INCL UDE IRRIT W/DISCOMFORT, TEARING OR BLURRING OF VISION.

OVEREXPOS BY INHAL TO VAPS MAY CAUSE TEMP NERVOUS (SEE INGRED 2)

Chemical Properties

HCC:N1

Boiling Pt:B.P. Text:81.7F,27.6C

Vapor Pres:13 PSIG

Vapor Density:5.3

pH:NEU

Evaporation Rate & Reference:Solubility in Water:0.39% BY WT @ 25C

Appearance and Odor:CLEAR, COLORLESS LIQUID, SLIGHT ETHEREAL ODOR.

Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid:OPEN FLAME AND HIGH TEMPERATURE.

Hazardous Decomposition Products:CMPD CAN BE DECOMPOSED BY HIGH TEMPS FORMING HCL & HF ACIDS-POSS CARBONYL HALIDES.CHLORIDES,FLUORIDES & PHOSGENE .

Disposal

Waste Disposal Methods:RECOVER BY DISTILLATION OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY. COMPLY W/FEDERAL, STATE, AND LOCAL REGULATIONS.

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