

"SUVA" MP39 (R401A)

MSDS Number

BXSFX

National Stock Number

6830-01-391-3101

Product Name

"SUVA" MP39 (R401A)

Manufacturer

DU PONT E I DE NEMOURS AND CO INC

Product Identification

Product ID:"SUVA" MP39 (R401A)

MSDS Date:10/05/1996

FSC:6830

NIIN:01-391-3101

MSDS Number: BXSFX

Responsible Party

DU PONT E I DE NEMOURS & CO INC

1007 MARKET STREET

WILMINGTON , DE 19898

US

Emergency Phone: 800-441-3637/800-424-9300(CHEMTREC)

Info Phone: 800-441-7515/MSDS 302-992-3511

Preparer: DUPONT CHEMS

Cage: 18873

Contractor

KIDDE FENWAL INC

ASHLAND, MA 01721-2150

US

508-881-2000

Cage: 0KDP7

Ingredients

CHLORODIFLUOROMETHANE (SARA 313) (CERCLA) (HCFC22)

CAS: 75-45-6

RTECS: PA6390000

Fraction By Weight: 53%

OSHA PEL1000 PPM

ACGIH TLV: 1000 PPM; 9596

1,1-DIFLUOROETHANE (HFC152A)

CAS: 75-37-6

RTECS: KI1410000

Fraction By Weight: 13%

2-CHLORO-1,1,1,2-TETRAFLUOROETHANE (SARA 313) (HCFC 124)

CAS: 2837-89-0

Fraction By Weight: 34%

Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:INHAL HIGH VAP CONCEN HARMFUL,MAY

CAUSE HEART IRREGULARITIES,UNCONSC,DEATH.INTENTINAL

MISUSE/DELIBERATE INHAL MAY CAUSE DEATH W/O WARNING.VAP REDUCES OXY

AVAI FOR BREATH,IS HEAVIER THAN AIR.LIQ CONTAC T CAN CAUSE

FROSTBITE.SKIN CONTACT FROSTBITE.INHAL:NONSPECI

DISVOMFT(AU,HEAD,WEAKNESS),TEMP NERV SYS DEPRESS(SIGN/SYMP)

Explanation of Carcinogenicity:PER MSDS:CARC INFO:NONE OF COMPO PRESENT

IN MATL AS CONCEN =/>0.1% ARE LISTED BY IARC/NTP/OSHA/ACGIH AS

CARCINOGEN.

Effects of Overexposure:HEALTH:W/ANESTHETIC

EFFECTS(DIZZ,EAD,CONFU,INCOORD,LOSS OF UNCONSC). EXPO >2.5%:TEMP

LUNG IRRIT W/COUGH,DICOMFT,DIFFI BREATHING OR SHORTNESS OF

BREATH,TEMP ALTERATION OF HEARTS ELECTRICAL ACTIVITIY W/ IRREG

PULSE,PALPITATIONS,INADEQ CIRCULATIONABNORMAL KIDNEY FUNCTION PER

LAB TESTS,FATALITY FROM GROSS OVEREXPO.

Medical Cond Aggravated by Exposure:INDIVIDUALS W/PRE-EXISTING DISEASES

OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM, LUNGS OR KIDNEYS

MAY HAVE INCREASE SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE EXPOS.

First Aid

First Aid:INHAL:IMMED REMOVE TO FRESH AIR.KEEP PERSON CALM.NOT BREATH

GIVE ART RESP;DIFFI BREATH GIVE OXY.CALL DR.SKIN:FLUSH W/WATER

@LEAST 15MINS.IRRIT PERSIST GET MED ASSIST.TREATFRSOTBITE IF

NECESSARY-GENTLY WARM AREA.EYE:IMMED FLUSH W/PLENTY OF WATER FOR

@LEAST 15MINS.CALL DR.INGEST:NOT CONSIDERED POT EXPO ROUTE.NOTE TO

DR:BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM CATECHOLAMINE

DRUGS LIKE(SUPP)

Fire Fighting

Flash Point Method:TOC

Flash Point:WILL NOT BURN

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:N/APPLICABLE

Upper Limits:N/APPLICABLE

Extinguishing Media:USE MEDIA APPROPRIATE FRO SURROUNDING MATL.

Fire Fighting Procedures:COOL TK/CNTNR W/H2OSPRAY/FOG.SELF-CONTAINED

BREATHING APPARATUS (SCBA)REQUIRED IF CYL RUPTURE & CONTENTS

RELEASED UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:CYL MAY RUPTURE UNDER FIRE

CONDITIONS.DECOMPO MAY OCCUR.WELD/SOLDER TORCH FLAME CONTACT W/HI

REFRIG CONC CAN RESULT IN VISIBLE CHNAGES IN SIZE/COLOR OF (SUPPLE)

Accidental Release

Spill Release Procedures:REVIEW FIRE FIGHT/HNDLG MSDS SECS.USE APPROPR

PPE DURING CLEANUP.VENTI AREA,ESPECIALLY LOW/ENCLS PLACES WHERE

HEAVY VAP MIGHT COLLECT.REMOVE OPN FLAMES.USE SELF-CONTAIN BREATH

APPARA(SCBA)IF LG SPILLS /LEAK OCCURS.COMPLY W/FED/STATE/LOC

REGSFOR RELEA

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:AVOID BREATH VAP/MIST,EYE/SKIN

CONTACT.USE W/SUFFI VENTI TO KEEP WORKER EXPO BELOW RECOMMENDED

LIMITS.STORE IN CLEAN,DRY PLACE.DONT HEAT >52C.

Other Precautions:REFRIG CONC MONITORS MAY BE NECESSARY TO DETERM VAP

CONC IN WORKAREA PRIOR TO USE OF TORCHES/OTHER OPN FLAME/IF WORKER

ENTER ENCLS AREAS. W/HYDROCHLOROFLUOROCARBONS/HYDROFLUORCARBNS PROD

SHOULDN'T BE M IX W/AIR FOR LEAK TEST-DONT USE IN(HYG)

Exposure Controls

Respiratory Protection: UNDER NORMAL MFG CONDITIONS NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF LARGE RELEASE OCCURS.
Ventilation: USE W/SUFFI VENTI TO KEEP WORKER EXPO BEL RECOMMENDED EXPO LIMIT. LOC EXHAUT-LG AMT RELEASE; MECH VENTI-IN LOW/ENCLSD AREA
Protective Gloves: LINED BUTYL GLOVES
Eye Protection: CHEM SPLASH GOGG
Other Protective Equipment: WASH CONTAM CLOTH BEF REUSE. 1 COMPO HFC152A FLAMM @AMB TEMP/ATM PRESSURE.
Work Hygienic Practices: OTH PREC: HI AIR CONC >ATM CONDITIONS-POT COMBUST MIX. 1 COMPO IN HCFC22 COMBUST @60PSIG @AMT TEMP W/65VOL% AIR/HIGHER.
Supplemental Safety and Health
1ST AID: EPINEPHRINE, SHOULD ONLY BE USED W/W/SPEC CAUT IN SITUATIONS OF EMERG LIFE SUPPORT. FIRE/EXPLO: TORCH FLAME-OCCURS ONLY CONC WELL >EXPO LIMIT, SO STOP WORK, VENTI AREA BEF PROCEED. USE FORCE VENTI-D ISPERSE VAP BEF OPN FLAME USE. MATL NOT FLAMM, CANT FRACTIONATE TO BECOME FLAMM @TEMPS >100C, ATMP PRESS.

Chemical Properties

HCC: G3
Boiling Pt: B.P. Text: -27F, -33C
Melt/Freeze Pt: M.P/F.P Text: NP
Decomp Temp: Decomp Text: NP
Vapor Pres: 112.1 PSIA
Vapor Density: 3.3 @26C
Spec Gravity: 1.152 GM/CC @25C
pH: NP
Viscosity: NP
Evaporation Rate & Reference: >1, CCL4=1
Solubility in Water: 0.1 @26C, SLIGHT
Appearance and Odor: CLEAR, COLORLESS LIQUEFIED GAS, ETHER (SLIGHT) ODOR
Percent Volatiles by Volume: 100
Corrosion Rate: NP

Stability

Stability Indicator/Materials to Avoid: YES
INCOMPATIBLE WITH ALKALI OR ALKALINE EARTH METALS-POWDERED AL, AZ, BE, ETC.
Stability Condition to Avoid: AVOID OPEN FLAMES AND HIGH TEMPERATURES.
Hazardous Decomposition Products: CAN DECOMP BY HI TEMPS (OPN FLAMES, GLOWING METAL SURFACES, ETC) FORMING HYDROCHLORIC & HYDROFLUORIC ACIDS, CARBONYL HALIDES.

Disposal

Waste Disposal Methods: TREAT/STORAGE/TRANSPO/DISPO MUST BE IAW APPLICABLE LOCAL, STATE/PROVINCIAL & FEDERAL REGULATIONS. RECOVER BY DISTILLATION OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY. CONTAINS CHEM SUBJ TO SEC 313 TLE III SARA/40CFR372.

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