View NSN Online: https://aerobasegroup.com/nsn/9150-01-443-9003

Product ID:MS-122DF, PTFE RELEASE AGENT/DRY LUBRICANT MSDS Date:05/01/2000 FSC:9150 NIIN:01-443-9003 Status Code:A MSDS Number: CLBVG === Responsible Party === Company Name: MILLER-STEPHENSON CHEMICAL CO, INC Address:55 BACKUS AVE/GEORGE WASHINGTON HIGHWAY Box:950 City:DANBURY State:CT ZIP:06810 Country:US Info Phone Num:203-743-4447 Emergency Phone Num: (800) 424-9300 Preparer's Name:NOT PROVIDED Chemtrec Ind/Phone:(800)424-9300 CAGE:18598 === Contractor Identification === Company Name: MILLER-STEPHENSON CHEMICAL CO INC Address:55 BACKUS AVE/GEORGE WASHINGTON HWY Box:950 City:DANBURY State:CT ZIP:06810 Country:US Phone:203-743-4447 Contract Num:SP0450-01-M-LC57 CAGE:18598

Ingred Name:1,

1-DICHLORO-1-FLUOROETHANE CAS:1717-00-6 RTECS #:KI0997000 Minumum % Wt:77. Maxumum % Wt:80. Other REC Limits:NOT PROVIDED OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED Ozone Depleting Chemical:2

Ingred Name:TELOMER OF TETRAFLUOROETHYLENE (CAS NUMBERS: 65530-85-0, 163440-89-9, 131324-06-6) = Wt:1. Other REC Limits:NOT PROVIDED OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED

Ingred Name:1,1,1,2-TETRAFLUOROETHANE CAS:811-97-2 Minumum % Wt:18. Maxumum % Wt:22. Other REC Limits:NOT PROVIDED OSHA PE L:NOT PROVIDED ACGIH TLV:NOT PROVIDED

LD50 LC50 Mixture:NOT PROVIDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION OF HIGH CONCENTRATIONS OF VAPOR MAY BE HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS/DEATH. IT IS A SKIN IRRITANT, IS A MILD EYE IRRITANT, AND IS NOT A SKIN SENSITIZER IN ANIM ALS. A SINGLE EXPOSURE OF 1,1-DICHLORO-1-FLUOROETHANE BY SKIN CONTACT CAUSED DECREASED BODY WEIGHT, REDNESS OF SKIN, AND LIVER EFFECTS. SINGLE EXPOSURE BY INHALATION TO HIGH DOSES CAUSED INACTIVITY; ALTERED KIDNEY FUNCTION, CARDIAC SENSITIZATION, A POTENTIALLY FATAL DISTURBANCE OF HEART RHYTHM ASSOCIATED WITH A HEIGHTENED SENSITIVITY TO EPINEPHRINE. SINGLE EXPOSURE BY INGESTION TO HIGH DOSES CAUS ED DECREASED BODY WEIGHT, LIVER EFFECTS

Explanation of Carcinogenicity:NON

Е Effects of Overexposure: INHALATION OF HIGH CONCENTRATIONS OF VAPOR MAY BE HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS/DEATH. IT IS A SKIN IRRITANT AND A MILD EYE IRRITANT. A SINGLE EXPOSURE OF 1,1-DICHLORO-1- FLUOROETHANE BY SKIN CONTACT CAUSED DECREASED BODY WEIGHT, REDNESS OF SKIN. SINGLE EXPOSURE BY INHALATION TO HIGH DOSES CAUSED CARDIAC SENSITIZATION. SINGLE EXPOSURE BY INGESTION TO HIGH DOSES CAUSED DECREASED BODY WEIGHT. Medical Cond Aggravat ed by Exposure:NOT PROVIDED First Aid:INHALATION: IMMEDIATELY REMOVE TO FRESH AIR. KEEP PERSONS CALM. IF NOT BREATHING, GIVE ARTIFICAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE: IN CASE OF CONTACT, IMMEDIA TELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, SKIN: FLUSH SKIN WITH WATER AFTER EXCESSIVE CONTACT, WASH CONTAMINATED CLOTHING BEFORE REUSE. ORAL: IF SWALL OWED, DO NOT INDUCE VOMITING, IMMEDIATELY GIVE TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN. Flash Point Method:TCC Flash Point:NONE Autoignition Temp: Autoignition Temp Text:ND Lower Limits:7.4 Upper Limits:15.5 Extinguishing Media:WATER SPRAY OR FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE. Fire Fighting Procedures: EVACUATE PERSONNEL TO SAFFE AREA. USE WATER **SPRA** Y OR FOG. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA).

Unusual Fire/Explosion Hazard: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. AVOID HIGH TEMPERATURES AND STATIC CHARGES. CONTAINERS MAY RUPTURE UNDER FIRE CONDITIONS. USE WATER SPRAY TO COOL CON TAINERS.

Spill Release Procedures: REVIEW FIRE AND EXPLOSION HAZARDS AND SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN UP. U SE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. VENTILATE AREA. DO NOT FLUSH TO SEWERS. COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO DRUMS FOR RECOVERY OR DISPOSAL. Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions: STORE IN A CLEAN DRY AREA. DO NOT HEAT ABOVE 125F. ROTATE STOCK TO SHELF LIFE OF ONE YEAR.

Other Precautions: AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYE

S, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. FLUOROTELOMER SHOULD NOT BE HANDLED AROUND TOBACCO PRODUCTS. INHALATION OF VAPORS IN THE PRE SENCE OF TOBACCO PRODUCTS CAUSES POLYMER FUME FEVER.

Respiratory Protection:WHERE VENTILATION IS INADEQUATE USE LOCAL EXHAUST SYSTEM DESIGNED FOR FLAMMABLE GAS ATOMOSPHERE TO REMOVE VAPORS.

Ventilation: USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE

BELOW THE RECOMMENDED EXPOSURE LIMIT.

Protective Gloves:MYLAR GLOVES

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment:NOT PROVIDED

Work Hygienic Practices:DO NOT CONSUME FOOD, DRINK OR TOBACCO IN THE AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. Supplemental Safety and Health

ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. SCBA = SELF CONTAINE D BREATHING

APPARATUS.

HCC:V2 NRC/State Lic Num:NOT RELEVANT Boiling Pt:=32.2C, 90.F B.P. Text:APPROX Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED Decomp Temp:Decomp Text:NOT PROVIDED Vapor Pres:517 AT 21C Vapor Density:4.0 Spec Gravity:1.23 G/CC Viscosity:NOT PROVIDED Evaporation Rate & amp; Reference:>1 (CCL4=1) Solubility in Water:NEGLIGIBLE Appearance and Odor:WHITE MILKY LIQUID, FAINT ETHERAL ODOR Percent Volatiles by Vol ume:99 Corrosion Rate:NOT PROVIDED

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS AND ALKALIS. FINELY POWDERED METALS SUCH AS AL, MG, ZN. STORNG OXIDIZING AGENTS AND SOME DESICCANTS.

Stability Condition to Avoid: AVOID HEAT, SPARKS AND FLAME.

Hazardous Decomposition Products: THIS PRODUCT CAN BE DECOMPOSED BY HIGH TEMPERATURES (FLAME, GLOWING METAL SURFACES, ETC.) FORMING HYDORGEN FLUORIDE HYDROGEN CHLORIDE,

CARBON MONOXIDE AND CARBON DIOXIDE.

Toxicological Information: IN A TWO YEAR INHALATION STUDY,

1,1-DICHLORO-1-FLUOROETHANE, AT CONCENTRATIONS OF 5,000 PPM OR 15-20,000 PPM, PRODUCED AN INCREASED INCIDENCE OF BENIGN TESTICULAR TUMORS IN RATS. THE NO EFFECT LEVEL F OR THIS STUDY WAS 1,500 PPM. ANIMAL DATA SHOW DEVELOPMENTAL EFFECTS ONLY AT EXPOSURE LEVELS PRODUCING OTHER TOXIC EFFECTS IN THE ADULT ANIMAL. REPR ODUCTIVE

DATA ON RATS SHOW INTERFERENCE WITH REPRODUC TION ONLY AT LEVELS WHICH PRODUCE OTHER TOXIC EFFECTS IN THE ADULT ANIMAL. TESTS IN BACTERIAL AND MAMMALIAN CELL CULTURES ARE GENERALLY NEGATIVE. IT HAS NOT PRODUCED GENETIC DAMAGE IN TESTS ON ANIMALS .

Ecological:NOT PROVIDED

Waste Disposal Methods: COMPLY WITH FEDERAL, STATE AND LOCAL

**REGULATIONS.** 

Transport Information:NOT PROVIDED

SARA Title III Information: PRODUCT HAZARD CATEGORIES: ACUTE HEALTH -YES, CHRONIC HEALTH - NO, FIRE HAZARD - NO, REACTIVITY HAZARD - NO, PRESSURE HAZARD - YES. LISTS: EXTREMELY HAZARDOUS SUBSTANCE - NO, CERCLA HAZARDOUS SUBSTA NCE - NO, TOXIC CHEMICALS - NO. Federal Regulatory Information:NOT P

## ROVIDED State Regulatory Information:NOT PROVIDED

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