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MILLER-STEPHENSON CHEMICAL CO, INC -- PTFE RELEASE AGENT/DRY LUBRICANT 9150-01-443-9003

Product ID: PTFE RELEASE AGENT/DRY LUBRICANT MSDS Date:02/01/1999 FSC:9150 NIIN:01-443-9003 Status Code:A **MSDS Number: CKYHL** === 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: JANET STEPHENS 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 CAGE:18598 Company Name: RADIAN INTL LLC Address:8501 N MOPAC BLVD Box:201088 City:AUSTIN State:TX ZIP:78720-1088 Country:US Phone:512-419-5224 С

ontract Num:SP0450-00-D-4021 CAGE:29913

Ingred Name:1,1-DICHLORO-1-FLUOROETHANE CAS:1717-00-6 RTECS #:KI0997000 Minumum % Wt:77. Maxumum % Wt:80. Ozone Depleting Chemical:2

Ingred Name:TELOMER OF TETRAFLUOROETHYLENE (65530-85-0, 163440-89-9, 131324-06-6) = Wt:1.

Ingred Name:1,1,1,2-TETRAFLUOROETHANE CAS:811-97-2 Minumum % Wt:18. Maxumum % Wt:22.

Repo

rts 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, OR DEATH. THE COMPOUND IS A SKIN IRRITANT, IS A MILD EYE IRRITANT, AND IS NOT A SKIN SENS ITIZER IN ANIMALS. A SINGLE EXPOSURE OF 1,1-DICHLORO-1-FLUOROETHANE BY SKIN CONTACT CAUSED DECREASED BODY WEIGHT, REDNESS OF SKIN, AND LIVER EFFECTS. Effects of Overexposure:INHALATION OF HIGH CON CENTRATIONS OF VAPOR MAY BE HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. THE COMPOUND IS A SKIN IRRITANT, IS A MILD EYE IRRITANT, AND

IS NOT A SKIN SENS ITIZER IN ANIMALS.

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, IMME DIA 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 SWALLOWED, 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 SPRAY 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. USE 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.

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

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 Work Hygienic Practices:AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. WASH THOROUGHLY AFTER HANDLING. FLUOROTELOMER SHOULD NOT BE HANDLED AROUND TOBACCO PRODUCTS. Supplemental Safety and Health INHALATION OF VAPORS IN THE PRESENCE OF TABACCO PRODUCTS CAUSES POLYMER FUME FEVER.

HCC:N1 Boiling Pt:=32.C, 89.6F B.P. Text:APPROX Vapor Pres:10 PSIA AT 21C Vapor Density:4.0 Spec Gravity:1.23 G/CC pH:NEUTRAL Evaporation R ate & Reference:>1 (CC14=1) Solubility in Water:NEGLIGIBLE Appearance and Odor:WHITE MILKY LIQUID, FAINT ETHERAL ODOR Percent Volatiles by Volume:99

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 DECO
MPOSED BY HIGH
TEMPERATURES (FLAME, GLOWING METAL SURFACES, ETC.) FORMING HYDORGEN FLUORIDE HYDROGEN CHLORIDE, CARBON MONOXIDE AND CARBON DIOXIDE.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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 E FFECT 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. REPRODUCTIVE 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 Information =========

Ecological:AQUATIC TOXICITY: 1,1-DICHLORO-1-FLUOROETHANE 96 HRS. LC50, RAINBOW TROUT: 20 MG/L.

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Transport Information:DOMESTIC (DOT): CONSUMER COMMODITY ORM-D. INTERNATIONAL AIR (IATA): AEROSOLS, NON-FLAMMABLE, 2.2, UN1950, NON-FLAMMABLE GAS.

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.

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