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MILLER-STEPHENSON CHEMICAL CO INC. -- MS-122DF TFE RELEASE AGENT/DRY LUBRICANT -- 9150-01-443-9003

============= Product Identification ==================

Product ID:MS-122DF TFE RELEASE AGENT/DRY LUBRICANT

MSDS Date:01/01/1998

FSC:9150

NIIN:01-443-9003

MSDS Number: CFKZY === Responsible Party ===

Company Name: MILLER-STEPHENSON CHEMICAL CO INC.

Address: GEORGE WASHINGTON HIGHWAY

Box:950

City:DANBURY

State:CT ZIP:06810

Country:US

Info Phone Num:203-743-4447

Emergency Phone Num:203-797-2212 OR 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

======= Composition/Information on Ingredients ========

Ingred Name:1,1-DICHLORO-1-FLUOROETHANE (SARA 313)

CAS:1717-00-6

RTECS #:KI0997000 Fraction by Wt: 77-80%

Other REC Limits:

NONE RECOMMENDED
Ozone Depleting Chemical:2

Ingred Name:POLY-TFE, ALPHA-(CYCLOHEXYLMETHYL)-OMEGA-HYDRO-, AND/OR

163440-89-9 AND/OR 131324-06-6

CAS:65530-85-0 Fraction by Wt: 1%

Other REC Limits: NONE RECOMMENDED

Ingred Name:1,1,1,2-TETRAFLUOROETHANE

CAS:811-97-2

Fraction by Wt: 18-22%

Other REC Limits: NONE RECOMMENDED

========= Hazards Identification ==============

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE

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 CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, DEATH. COMPOUND IS A SKIN IRRITANT, A MILD EYE IRRITANT.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:HEART IRREGULARITIES, UNCONSCIOUSNESS, DEATH, S

KIN IRRITATION, EYE IRRITATION.

Medical Cond Aggravated by Exposure: ASTHMA AND ANY OTHER RESPIRATORY DISORDERS. SKIN ALLERGIES, ECZEMA, AND DERMATITIS.

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET

MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. CALL MD.

============ Fire Fighting Measures =========================

Flash Point Method:TCC

Flash Point:NONE Lower Limits:7.4 % Upper Limits:15.5 %

Extinguishing Media:WATER SPRAY OR FOG. FOAM. DRY CHEMICAL OF CARBON DIOXIDE.

Fire Fighting Procedures: EVACUATE PERSONNEL TO SAFE AREA. USE WATER SPRAY OR FOG. WEAR SELF-CONTAINED BR

EATHING APPARATUS. USE WATER SPRAY TO COOL CONTAINERS.

Unusual Fire/Explosion Hazard: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. AVOID HIGH TEMPERATURES & STATIC CHARGES. CONTAINER MAY RUPTURE IN HIGH HEAT.

========= Accidental Release Measures ============

Spill Release Procedures:USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEANUP. VENTILATE AREA. DO NOT FLUSH TO SEWERS. COLLECT ON ABSORBENT MATERIAL AND TRA

NSFER TO DRUMS FOR RECOVERY OR DISPOSAL.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

=========== Handling and Storage ===============

Handling and Storage Precautions: STORE IN A CLEAN DRY AREA. DO NOT HEAT ABOVE 125F. ROTATE STOCK TO SHELF LIFE OF ONE YEAR. DO NOT CONSUME FOOD, DRINK OR TOBACCO IN WORK AREA.

Other Precautions:USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEES EXPOSURE BELOW THE RECOMMENDED EXPOSURE LIMIT, ESPECIALLY FOR ENCLOSED AND LOW

PLACES. WHERE VENTILATION IS INADEQUATE USE LOCAL EXHAUST SYSTEM DESIGN ED FOR FLAMMABLE GAS TO REMOVE VAPORS.

====== Exposure Controls/Personal Protection ========

Respiratory Protection:IF EXPOSURE MAY OR DOES EXCEED OCCUPATION EXPOSURE LIMITS USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AI R-PURIFYING RESPIRATOR. Ventilation:EXHAUST VENTILATION SUFFICIENT TO KEEP AIR BORNE

CONCENTRATIONS BELOW RESPECTIVE TLV'S.

Protective Gloves: MYLAR GLOVES

Eye Protection: CHEMICAL GOGGLES, SAFETY GLASSES W/SIDES

Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REU

SE.

======== Physical/Chemical Properties =============

HCC:V2

Boiling Pt:B.P. Text:89.6F,32.0C

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:10 PSIA Vapor Density:4.0 Spec Gravity:1.23

pH:7

Evaporation Rate & Evaporation R

Solubility in Water: NEGLIGIBLE

Appearance and Odor: WHITE LIQUID WITH FAINT ETHEREAL ODOR

Percent Volatiles by Volume:99 %

======== Stability and Reactivity Data =========

Stability Indic

ator/Materials to Avoid:YES

STRONG ACIDS AND ALKALIS, FINELY POWDERED METALS, STRONG OXIDIZING AGENTS AND SOME DESICCANTS.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, OPEN FLAMES Hazardous Decomposition Products:HYDROGEN FLUORIDE, HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON DIOXIDE.

======= Disposal Considerations ===========

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CON TAINER OR

LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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