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MILLER-STEPHENSON CHEMICAL CO INC. -- MS-143 FLUOROCARBON RELEASE AGENT 9150-01-078-9586

Product ID:MS-143 FLUOROCARBON RELEASE AGENT

MSDS Date:01/01/1990

FSC:9150

NIIN:01-078-9586

MSDS Number: BMWYF === Responsible Party ===

Company Name: MILLER-STEPHENSON CHEMICAL CO INC.

Address: GEORGE WASHINGTON HIGHWAY

Box:950

City:DANBURY

State:CT ZIP:06810 Country:US

Inf

o 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

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

Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA

III)

CAS:76-13-1

RTECS #:KJ4000000 Fraction by Wt: 97%

Other REC

Limits: NONE SPECIFIED OSHA PEL:1000PPM/1250STEL ACGIH TLV:1000PPM/1250STEL9192 Ozone Depleting Chemical:1 Ingred Name: TELOMERS OF TETRAFLUOROETHYLENE CAS:79070-11-4 Fraction by Wt: 3% Other REC Limits: NONE SPECIFIED Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION-VAPORS ARE HEAVIER THAN AIR & CAN REDUCE OXYGEN FOR BRE ATHING. EXCESSIVE INHALATION OF PYROLIZED FUMES VAN CAUSE FLU LIKE "POLYMER FUME FEVER". SKIN-CONTACT WILL RESULT IN IRRITATION. EYE-C ONTACT WILL CAUSE IRRITATION. ORAL-ALTHOUGH ORAL TOXICITY IS LOW, INGESTION IS TO BE AVOIDED. Explanation of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS. Effects of Overexposure: INHALATION-EXCESSIVE INHALATION CAN CAUSE DIZZINESS, NARCOSIS, ANEST HIA, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. SKIN-CONTACT WILL CAUSE DEFATTING OF THE SKIN. Medical Cond Aggravated by Exposure: CARDIOVASCULAR DISEASE. First Aid:INHALATION-REMOVE TO FRESH AIR. IF NEEDED, PERFORM CPR OR GIVE OXYGEN. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS AS SUCH DRUGS. MAY INDUCE VENTRICULAR ARRHYTHMIA. EYES-FLUSH EYE WITH PLENTY OF WATER AT LEAST 15 MIN. CONTACT PHYSICIAN. SKI N-FLUSH WITH WATER. SEE PHYSICIAN IF IRRITATION IS PRESENT. ORAL-DO NOT INDUCE VOMITING. GIVE TWO GLASSES OF WATER OR ACTIVATED CHARCOAL SLURRY.

Flash Point Method:TOC

Flash Point:NONE

Extinguishing Media: "ALCOHOL" FOAM. DRY POWDER (SAND OR MET-L-X), CARBON DIOXIDE, DRY CHEMICAL.

Fire Fighting Procedures: EVACUATE PERSONNEL TO SAFE AREA. DECOMPOSITION MAY FORM TOXIC COMPOUNDS. SELF CONTAINED BREATHING APPARATUS

MAY BE REQUIRED IF DRUM RUPTURE & CONTENTS SPILLS. Unusual Fire/Explosion Hazard:DRUMS MAY RUPTURE UNDER FIRE. DECOMPOSITION MAY OCCUR. AIR-BORNE SOLID PARTICLES MAY BE GENERATED ABOVE 216C. AT 260-290C FORMS TOXIC FLUORINE COMPOUNDS.
======== Accidental Release Measures ==========
Spill Release Procedures: VENTILATE AREA. VAPORS TEND TO CONCENTRATE IN LOW AREAS. REVIEW FIRE & EXPLOSION HAZARD & SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN UP. WIPE UP SPILL WITH ABSORBENT
MATERIAL & DISPOSE TO LANDFIL L. WASH HANDS WITH SOAP & WATER.
============ Handling and Storage =============
Handling and Storage Precautions:DO NOT STORE NEAR SOURCES OF HEAT ABOVE 125F/52C. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREA WHERE IT HAS BECOME CONTAMINATED WITH PRODUCT Other Precautions:HANDLING-FREEZING WILL AFFECT THE PHYSICAL CONDITION BUT WILL NOT DAMAGE. THAW & MIX BEFORE USING. ROTATE STOCK TO SHELF LI
FE OF 1 YEAR**TO PREPARE SLURRY, SUSPEND 50 G ACTIVATED CHARCOAL IN 400 ML WA TER. SHAKE, GIVE 5 ML/KG OR 260 ML.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NONE SPECIFIED BY MANUFACTURER. Ventilation:USE LOCAL EXHAUST, IF LARGE AMOUNTS ARE RELEASED. MECHANICAL VENTILATION SHOULD BE USED IN LOW PLACES. Protective Gloves:VINYL OR NEOPRENE GLOVES Eye Protection:CHEMICAL SPLASH GOGGLES Other Protective Equipment:PRUDENT USAGE WOULD NOT REQUI RE EYE AND SKIN PROTECTION.
Work Hygienic Practices:DO NOT CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.
Supplemental Safety and Health NOTE TO PHYSICIAN: BECAUSE OF A POSSIBLE INCREASED RISK OF ELICITING

NOTE TO PHYSICIAN: BECAUSE OF A POSSIBLE INCREASED RISK OF ELICITING CARDIAC DYSRYTHMIAS, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE CONSIDERED ONLY AS A LAST RESORT IN LIFE THREATENING EMERG ENCIES.

HCC:T6 Boiling Pt:=47.8C, 118.F Vapor Pres:334 MMHG Vapor Density:2.9 @77F

Spec Gravity:1.6

pH:7

Evaporation Rate & Description Reference: 1 (N-BUTYL ACETATE=1)

Solubility in Water: NEGLIGIBLE

Appearance and Odor:FORM: DISPERSION. COLOR: WHITE. APPERANCE: MILKY.

ODOR: FAINT SOLVENT.
Percent Volatiles by Volume:97%

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

Stability Indicator/Materials to Avoid:YES
FINELY DIVIDED REACTIVE METALS.
Stability Condition to Avoid:DO NOT USE NEAR OPEN FLAMES OR
RED HOT

SURFACES. DO NOT SMOKE WITH CONTAIMNATED TOBACCO OR HANDS. Hazardous Decomposition Products:INTENSE HEAT MAY CAUSE DECOMPOSITION WITH EMISSION OF HALOGEN ACIDS, PHOSGENE IN SMALLER AMOUNTS & PERFLUOROCARBONS.

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

Waste Disposal Methods:RECLAIM SOLOVENT BY FILTRATION & DISTILLATION.
DO NOT FLUSH TO SURFACE WATER OR SEWER SYSTEM. DISPOSAL SERVICE TO
LANDFILL IS APPROPIATE AS FEDERAL, STATE AND LOCAL REGUL
ATIONS

PERMIT. CONSULT LOCAL W ASTE DISPOSAL CONTRACTOR. DO NOT BURN.

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