

MILLER-STEPHENSON CHEMICAL CO INC -- MS-200 MAGNETIC TAPE HEAD CLEANER --  
6850-00-105-3084

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

Product ID:MS-200 MAGNETIC TAPE HEAD CLEANER

MSDS Date:01/01/1986

FSC:6850

NIIN:00-105-3084

MSDS Number: BCYTL

=== Responsible Party ===

Company Name:MILLER-STEPHENSON CHEMICAL CO INC

Address:GEORGE WASHINGTON HWY

Box:950

City:DANBURY

State:CT

ZIP:06810

Country:US

Info Phon

e Num:203-743-4447

Emergency Phone Num:800-424-9300CHEMTREC(203-797-2212)

Preparer's Name:JANET STEPHENS

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

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: 80%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000PPM/1250STEL  
ACGIH TLV:1000PPM/1250STEL9293  
Ozone Depleting Chemical:1

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)  
CAS:75-71-8  
RTECS #:PA8200000  
Fraction by Wt: 20%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS  
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 43000 MG  
/KG

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

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

Health Hazards Acute and Chronic:ACUTE: INHALATION OF VERY LARGE

AMOUNTS OR VERY HIGH CONCENTRATIONS MAY CAUSE ASPHYXIATION. CONTACT  
WITH SKIN MAY CAUSE SKIN DEFATTING OR IRRITATION. CONTACT WITH EYES  
MAY CAUSE MINOR IRRITATION. NON- TOXIC IF SWALLOWED. CHRONIC: NONE  
SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALED: LIGHT-HE  
ADEDNESS, GIDDINESS, SHORTNESS

OF BREATH, NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS, OR  
DEATH. EYES: REDNESS, DISCOMFORT. SKIN: DRYNESS, REDNESS,  
DISCOMFORT. INGESTED: NONE SP ECIFIED BY MANUFACTURER.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:INHALED: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF  
BREATHING STOPPED. GET MEDICAL ATTENTION. EYES: FLUSH WITH LOTS OF

WATER FOR 15 MINUTES, HOLD LIDS OPEN. SEE DOCTOR. SKIN: FLUSH WITH WATER. SEE DOCTOR IF SYMPTOMS PERSIST. INGESTED: DO NOT INDUCE VOMITING! GET MEDICAL ATTENTION.

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

Flash Point Method:TOC  
Flash Point:NONE  
Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/Explosion Hazard:PRESSURIZED AEROSOL CONTAINERS MAY EXPLODE AT ELEVATED TEMPRATURES.

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

Spill Release Procedures:VENTILATE AREA. REMOVE OPEN FLAME OR RED HOT SURFACES. ALLOW TO EVAPORATE.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT STORE NEAR SOURCES OF HEAT, OPEN FLAME, DIRECT SUNLIGHT OR WHERE TEMPERATURES EXCEED 120F. DO NOT PUNCTURE OR DAMAGE CANS.  
Other Precautions:ROTATE STOCK TO SHELF LIFE OF 1 YEAR.

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

Respiratory Protection:NONE NORMALLY REQUIRED.  
Ventilation:USE ADEQUATE MECHANICAL VENTILATION.  
Protective Gloves:BUTYL  
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES  
Other Protective Equipment:NONE NORMALLY REQUIRED.  
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. DO NOT SPRAY LIQUID ON SKIN

Supplemental Safety and Health  
ITEM IS TYPE II A, CLASS 2 IN MIL-C-81302

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

HCC:V2  
Boiling Pt:B.P. Text:118F,48C  
Vapor Pres:334 MM HG  
Vapor Density:2.9(AIR=1)  
Spec Gravity:1.57 (WATER=1)  
Evaporation Rate & Reference:1 (N-BUTYL ACETATE=1)  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:CLEAR, COLORLESS LIQUID; FAINT SOLVENT ODOR  
Percent Volatiles by Volume:100

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

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Stability Indicator/Materials to Avoid: YES

ALKALI OR ALKALI EARTH METALS, POWDERED ALUMINUM, ZINC, BERYLLIUM, ETC.

Stability Condition to Avoid: DO NOT HEAT AEROSOL CANS ABOVE 120F. AVOID CONTACT BETWEEN CONTENTS AND INCOMPATIBLES.

Hazardous Decomposition Products: THERMAL DECOMPOSITION FORMS: HYDROCHLORIC AND HYDROFLUORIC ACIDS, POSSIBLY CARBONYL HALIDES.

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND

FEDERAL REGULATIONS. MANUFACTURER RECOMMENDS DISPOSAL IN LANDFILL. DO NOT PUNCTURE OR INCINERATE AEROSOL CANS.

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