

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-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. EYES: REDNESS, DISCOMFORT. SKIN: DRYNESS, REDNESS, DISCOMFORT. INGESTED: NONE SPECIFIED 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 TEMPERATURES.

===== 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 =====

=====

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.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.