

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 Pho

ne 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 #:KJ400000

0
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 M
G/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-H
EADEDNESS, 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 FLMAE, 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 CARBOXYL 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 com

petent professional advice to verify and

assume responsibility for the suitability of this information to their

particular situation.