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IBM CORPORATION -- IBM, CLEANER, TAPE UNIT PN:8493001-1 -- 7040-00-151-9956
============== Product Identification ================
Product ID: IBM, CLEANER, TAPE UNIT PN:8493001-1
MSDS Date: 04/16/1993
FSC:7040
NIIN:00-151-9956
MSDS Number: BDCRZ
=== Responsible Party ===
Company Name: IBM CORPORATION
Address:OLD ORCHARD ROAD
City: ARMONK
State:NY
ZIP:10504-1709
Country: US
Info Phone Num:1-800-IBM-4333
Emergency Phone Num: 800-426-4333/FAX 214-280-3903
CAGE:30874
=== Contractor Identification ===
Company Name: IBM CORPORATION
Address:OLD ORCHARD ROAD
City: ARMONK
State:NY
ZIP:10504-1709
Country: US
Phone: 800-426-4333/FAX 214-280-3903
CAGE: 30874
======= Composition/Information on Ingredients =========
Ingred Name: 1, 1, 2-TRICHLORO-1, 2, 2-TRIFLUOROETHANE (FREON 113) (SARA
    313)
CAS:76-13-1
RTECS #:KJ4000000
Fraction by Wt: 64.7%
Other REC Limits: NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:1000PPM/1250STEL; 96
Ozone Depleting Chemical:1
Ingred Name:ISOPROPYL ALCOHOL (SARA 313)
CAS: 67-63-0
RTECS #:NT8050000
Fraction by Wt: 35%
Other REC Limits: NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9596
Ingred Name:NITROMETHANE (INHIBITOR)
CAS:75-52-5
RTECS #:PA9800000
Fraction by Wt: 0.3%
Other REC Limits: NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:20 PPM; 9596
====== Hazards Identification ===========
LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and
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Chronic:INHAL:LIGHTHEADEDNESS,GIDDINESS,SHORTNESS OF BREATH, DROWS, UNCONSC.IRREGULAR HEARTBEAT @HI CONC.VAPORIZATION OF EXCESSIVE AMTS OF PROD CAN DEPLETE/REPLACE OXY NECESSARYFOR BREATH.EYE:MILD IRRIT.SKIN:MA Y CAUSE IRRIT,RASH.INGEST:NAU, VOMIT, DROWS, INCOORDINATION, UNCONSC, CESSATION OF BREATHING.

Explanation of Carcinogenicity:PER MSDS:NO SUBSTANCES ON MSDS HAVE BEEN FOUND TO BE CARC OR PORTENTIAL CARC AS LISTED BY NATP/IARC/OSHA.

Effects of Overexposure: CHRONIC: INHAL: CHRONIC

DRUNKENNESS, DROWS, INCOORDINATION, UNCONSC, CESSATION OF BREATHING DURING VAPOR EXPO.

Medical Cond Aggravated by Exposure: MAY IRRITATE PEOPLE W/SKIN PROBLEMS, ASTHMA, LUNG, HEART PROBLEMS, SUSCEPTIBLE INDIVIDUALS MAY HAVE AN ALLERGIC REACTION.

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

First Aid:INHAL:REMOVE FRM ARE OF EXPO TO FRESH AIR.ASSESS
AIRWAY, BREATH, CIRCULATION, LEVEL OF CONSC.IF NECESSARY PROVIDE
CARDIOPULMONARY SUPPORT .SEEK IMMED MED ATTN.EYE:FLUSH W/COPIOUS
AMTS OF WATER FOR 15MINS .SKIN:WASH AREA W/SOAP/WATER.REMOVE CONTAM
CLOTH.INGEST:DONT INDUCE VOMIT.DONT GIVE ANYTHING TO UNCONSC
PERSON.

Flash Point:NDA

Lower Limits:N/DATA AVAI Upper Limits:N/DATA AVAI

Extinguishing Media: CARBON DIOXIDE, FOAM, DRY CHEMICAL.

Fire Fighting Procedures: USE NIOSH APPROV SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: COOL CNTNRS & KEEP IN OPN AREA.ADDN OF EXCESS H2O(<9%) WILL EXTRACT ALCOHOL & MAY FORM FLAMM SUPERNATANT LIQ LAYER.NOTE: PROD AS SHIPPED IS NON-FLAMM. (SUPPLEMENT)

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

Spill Release Procedures: CONTAIN FOR TREATMENT/DISPOSAL, VENTILATE AREA, COVER W/ABSORBENT MATL & COLLECT.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: KEEP CNTNRS TIGHTLY CLOSED. AVOID EXCESSIVE HEAT DURING STORAGE, UNOPENEDIFACTORY SEALED) CNTNRS ARE NOT FLAMM. HOWEVER DUE TO EVAPORATION UPON (OTH PRECA)

Other Precautions: HNDLG/STORAGE: OPENING MIXTURE MAY BECOME FLAMM.RAGS OR MATLS SATURATED W/CLEANER MAY PRESENT A FIRE HAZ.KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:FOR EXCESSIVE EXPOSURE:RESPIRATORY PROTECTION:ORGANIC VAPOR.

Ventilation:LOCAL EXHAUST

Protective Gloves: IMPERMEABLE GLOVES

Eye Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment: WHEN WORKING W/LG AMTS USE APRON & FACE SHIELD.

Work Hygienic Practices: DONT WEAR CONTAM CLOTH AGAIN TIL PROPERLY LAUNDERED.

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Supplemental Safety and Health FIRE/EXPLO:MIST/SPRAY IS FLAMM.FLASH PT REDUCED TO 32C(90F) AFT 45% EVAPORATION:ISOPROPANOL BECOMES FLAMM. PER MSDS:OBSOLET ITEM; PART NO LONGER AVAI.

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

HCC:N1

Boiling Pt:B.P. Text:120F,49C

Melt/Freeze Pt:M.P/F.P Text:-94F,-70C

Decomp Temp:Decomp Text:500F,260C

Vapor Pres:284 Vapor Density:2.2 Spec Gravity:1.15

pH:NDA

Evaporation Rate & Reference: 3.7, NO REF GIVEN

Solubility in Water: 35, APPRECIABLE

Appearance and Odor: CLEAR, COLORLESS LIQUID, MILD ALCOHOLIC ODOR

Percent Volatiles by Volume:100

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

W/ALKALI OR ALKALINE EARTH METALS; POWDERED AL, ZINC, BERYLLIUM, ETC. CAN REACT W/STRONG OXIDIZING MATLS.

Stability Condition to Avoid: AVOID OPEN FLAMES OR TEMPERATURES ABOVE 51.6C(125F).

Hazardous Decomposition Products: HAZ DECOMPO TEM 260C PRODUCTS: HYDROCHLORIC AND FHYDROFLUORIC ACIDS. POSSIBLE CARBONYL HALIDES.

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. INCINERATION.

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