

JEM SALES,INC -- F-176(1,1,1-TRICHLOROETHANE) -- 6810-00-664-0387

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

Product ID:F-176(1,1,1-TRICHLOROETHANE)

MSDS Date:04/02/1996

FSC:6810

NIIN:00-664-0387

MSDS Number: CDQLV

=== Responsible Party ===

Company Name:JEM SALES,INC

Address:430 LAVENDER DRIVE

City:ROME

State:GA

ZIP:30165-7762

Country:US

Info Phone Num:706-232-1709/FAX 706-802-1175

Emergency Phone Num:80

0-424-9300(CHEMTREC)

Preparer's Name:GEORGE KORDARRES

CAGE:LO758

=== Contractor Identification ===

Company Name:JEM SALES INC INCHEMCO DIV

Address:430 LAVENDER DR

Box:City:ROME

State:GA

ZIP:30165-2262

Country:US

Phone:706-232-1709

CAGE:0AZD7

Company Name:JEM SALES,INC

Address:430 LAVENDER DRIVE

Box:City:ROME

State:GA

ZIP:30165-7762

Country:US

Phone:706-232-1709/FAX 706-802-1175

CAGE:LO758

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

Ingred Name:METHYL CHLOROFORM (1,1,

1-TRICHLOROETHANE (SARA 313)

(CERCLA)

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: >95%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:350 PPM

ACGIH TLV:350 PPM/450STEL;9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ozone Depleting Chemical:1

Ingred Name:TERT-BUTYL ALCOHOL (SARA 313)

CAS:75-65-0

RTECS #:EO1925000

Fraction by Wt: 1.9%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:100 PPM, A4; 9596

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

LD50 LC50 Mi

xture:NONE SPECIFIED BY MANUFACTURER.

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:DEFAT SKIN CAUSING

IRRIT,REDNESS,DRYNESS,SCALING.EYE:IRRIT,MILD CONJUNCTIVITIS.VAP

INHAL:HEAD,DIZZ,EQUILIBRIUM DISTURBANCES,HIGH CONC LEAD TO CNS

DEPRESS,UNCONSC,COMA.MILD LIVE/KIDNEY DYSFUNCTION AFT CNS DEPRESS

RECOVERY.INGEST:UNLIKELY IFSO NAU,VOMIT,DIARR,POSSIBLE ESOPHAGEAL

BURNS.CHRONIC EF

FFECTS:NONE REPORTED.

Explanation of Carcinogenicity:PER MSDS:IARC/NTP/OSHA LIST COMPONENT

1,1,1-TRICHLOROETHANE AS SUSPECTED CARCINOGEN.

Effects of Overexposure:INHAL:LIGHTHEADNEDNESS,IMPAIRED

COORDINATION,DIZZINESS,DROWSINESS.EYE:BLURNING,STINGING,WATERING,CO

NJUNCTIVAL INFLAMM,POSSIBLE CORNEAL INJURY.SKIN:MILD

IRRIT,DRYNESS(DEFATTING EFFECT),COLD FEELING.ING EST:DEPRESSION OF

CNS,THROAT IRRIT,DIZZ,DROWSINESS,UNCONSC,DEATH.

Medical Cond Aggravated by Exposure:NONE REPORTED.

TARGET

ORGANS:SKIN,EYE,CENTRAL NERVOUS
SYSTEM(CNS),CARDIOVASCULAR(CVS)SYSTEM.

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

First Aid:INHAL:REMOVE TO FRESH AIR.BREATH DIFF ADMIN OXY.EYE:DON'T
ALLOW TO RUB OR KEEP TIGHTLY SHUT.FOUSH W/LG AMTS OF WTER.CONSULT
DR.SKIN:QUICKLY REMOVE CONTAMIN CLOTH.RINSE W/LG AMTS OF WATER.WASH
W/SOAP/W ATER.RED/BLISTED SKIN CONSULT DR.INGEST:DO NOT INDUCE
VOMIT.GIVE 1 OR 2 GLASSES OF WATER TO DRINK.NEVER GIVE ANYTHIN

G BY

MOUTH IF UNCONSC.CONTACT POIS CNTRL CNTR/MED PERSON.DR:AVOID USE OF
(SUPPLEMEN)

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

Flash Point:DOES NOT FLASH

Autoignition Temp:Autoignition Temp Text:458C

Lower Limits:7.0

Upper Limits:15

Extinguishing Media:NOT APPLICABLE. USE WATER,FOG,FOAM,DRY CHEM OR CO2
FOR SURROUNDING FIRE.USE WATERSPRAY TO COOL FIRE-EXPO CNTNRS/EQPMT.

Fire Fighting Procedures:DON'T RELEASE RUNOFF FROM FIRE CNTRL METHODS
TO SEWERS/WAT

ERWAYS.BECAUSE FIRE MAY PROD TOXIC THERM DEOCMPO PROD
WEAR SCBA W/FULL FACEPIECE OPERATED IN (SUPPLEM)

Unusual Fire/Explosion Hazard:NON-FLAMM.NEVER USE WELD/CUT TORCH
ON/NEAR DR(EVEN EMPTY)-PROD(EVEN RESIDUE)CAN IGN EXPLO.VAP CONC IN
CONFINED &/OR POORLY VENTI AREA CAN BE IGN UPON (SUPPLEME)

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

Spill Release Procedures:NOTIFY SAF PERSON,EVACUATE ALL UNNECESSARY
PERSONS,GET PPE.SM:ABSORB ON PAPER/VERMI/ABSORBENT M

ATL.TRANSFER TO

EXHAU HOOD/OUTSIDE.LG:STOP SPILL.DIKE,PUMP TO SALVAGE TK.USE
ABSORBENT MATL FOR REMAINING LIQ.DON'T RELEAASE TO
SEWER/WATERWAY.FOLLOW OSHA.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:CONSIDER PRE MED EXAMS OF EXPO WORKERS
THAT EMPHASIZE CNS/CVS/LIVER/SKIN.INFO WORKER OF PROD HAZ & OSHA
29CFR1910.146.STORE:COOL DRY WELL VENTI AREA.

Other Precautions:D

ISPO:RESIDUE FRM CNTNR,PUNCT/DESTR EMPTY CNTNR BEF
DISPO.OBSERVE ALL HAZ PRECAU.KEEP AWAY FRM HEAT/ETC.DON'T WELD/CUT
TORCH ON/NEAR CNTNR.WASTE#:U226 FOR PROD;F001 FOR DEGRE/SLUD;F002
FOR STILL BOTTO M.RQ:1000LBS.SARA TOXI CHEM.AIR CONTAMIN

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

Respiratory Protection:GET PROF ADVICE PRIOT TO RESP
SELECTION/USE.FOLLOW OSHA 29CFR1910.134.WEAR NIOSH/MSHA RESP.BASE
SELECTION SUITABGILITY FOR PROT FOR CONDITONS,LEVE
L OF
CONTAIN,SUFFI OXY.EMER/NONRT OPERATIONS WEAR SCBA .AIRPURIF RESP NO
PROTECT IN OXY DEFFIC.

Ventilation:PROVIDE GEN/LOC EXHAU VENTI(PREFER)SYS-MAINTAIN AIRBORNE
CON BEL OSHA PELS.PROVIDE +VENTI SYS FOR ENTIRE ENTRY PERIOD.

Protective Gloves:CHEM PROTECTIVE GLOVES.

Eye Protection:PROT EYEGASSES,CHEM SAF GOGG,FACE PROT.

Other Protective Equipment:CONTACT LENSES NOT EYE PROT DEVICES.CHEM
PROT BOOTS/APRONS/GAUNTLETS.EMERG EYEWASH STATIONS,SAF/QUICK
SHOWER,WASH FACILI

Work Hy

gienic Practices:SEPARATE CONTAM WORKCLOTH FRM STREETCLOTH.WASH
CONTAM CLOTH BEF REUSE;REMOVE PROD FRM SHOE.CLEAN PPE.FOLLOW GOOD
HYG PRA

Supplemental Safety and Health

FIREFIGHT:PRESSURE-DEMAND OR POSITIVE-PRESSURE MODE. FIRE/EXPLO:CONTACT
W/HIGH ENERGY SPARK/FLAME/IGN SOURCE.VAP HEAVIER THAN AIR-COLLECT
IN LOW AREAS. 1STAD:OF ADRENALIN OR HEART STIMULATING DRUGS W HEN
OVERCOME BY PROD.BECAUSE RAPID ABSORP THRU LUNGS IF ASPIRATED,SYS
EFFECTS OCCUR,DR SHOULD DECIDED IF V
OMIT OR NOT.

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

HCC:T4

Boiling Pt:=76.7C, 170.F

Melt/Freeze Pt:=-37.2C, -35.F

Decomp Temp:Decomp Text:NP

Vapor Pres:100 @20C

Vapor Density:4.6

Spec Gravity:1.319

pH:NA

Viscosity:0.86CP @20C

Evaporation Rate & Reference:35, ETHER=1.

Solubility in Water:0.07G/100G @25C.

Appearance and Odor:LIQUID, CLEAR, PARTICLE FREE LIQUID W/SWEET AROMA.

Percent Volatiles by Volume:100

Corrosion Rate:NA

===== Stability and Reac

tivity Data =====

Stability Indicator/Materials to Avoid: YES

WATER, REACTIVE METALS SUCH AS ALUMINUM/MAGNESIUM, STRONG OXIDIZING AGENTS, STRONG ALKALIES.

Stability Condition to Avoid: OPEN FLAMES, SPARKS, HIGH TEMPERATURES, IGNITION SOURCES.

Hazardous Decomposition Products: HAZ COMBUST PROD: HYDROGEN CHLORIDE, DICHLOROACETYLENE, PHOSGENE, CHLORINE GAS.

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

Waste Disposal Methods: CONTACT SUPPLIER/LICD CONTRACTOR FOR DETAILED

RECOMMENDATIONS. ANY DISPO MUST BE IN COMPLIANCE W/ FED/STATE/LOCAL REGS. EMPTY CNTNR RETAIN PROD RESIDUE. DON'T DISTRIBUTE/MAKE AVAIL/FURNISH/REUSE EMPTY CNTR EXCEPT FOR STORAGE/SHIP ORG PROD. REMOVE (OTH PRECA)

===== Other Information =====

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