

V.O. BAKER -- 1,1,1-TRICHLOROETHANE;SOLVENT 111;SS-102;METHYL CHLOROFORM --
6810-00-476-5613

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

Product ID:1,1,1-TRICHLOROETHANE;SOLVENT 111;SS-102;METHYL CHLOROFORM

MSDS Date:01/01/1990

FSC:6810

NIIN:00-476-5613

MSDS Number: BXVPP

=== Responsible Party ===

Company Name:V.O. BAKER

Box:55

City:MENTOR

State:OH

ZIP:44061-0055

Country:US

Info Phone Num:216-255-1020/800

-321-3572

Emergency Phone Num:316-524-5751/415-821-5338

CAGE:8T692

=== Contractor Identification ===

Company Name:V O BAKER DIST CO

Box:55

City:MENTOR

State:OH

ZIP:44061-0055

Country:US

Phone:216-255-1020

CAGE:8T692

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

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE) (SARA 313)
(CERCLA)

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: 96.5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:350 PPM

ACGIH TLV:350 PPM/450STEL;9495

EP

A Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS
Ozone Depleting Chemical:1

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA 313) (CERCLA)
CAS:123-91-1
RTECS #:JG8225000
Fraction by Wt: 0.5%
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHAL:MIN EFFECTS OBSERVED
100

0PPM.UNCONSC/DEATH POSSIBLE
>10000PPM.BLOOD PRESSURE DEPRESSION,CARDIAC
SENSITIZATION,VENTRICULAR ARRHYTHMIA CAN RESULT FRM EXPO TO NEAR
-ANESTHETIC LEVELS.AEROSOL FORM MORE ACUTELY TOXIC THAN
VAP.SKIN:PROL/REP CONTACT IRRIT,DEFATT,DERM.ABSOPTION (SUPPLEM)

Explanation of Carcinogenicity:PER MSDS:PRODUCT NOT LISTED ON
OSHA/IARC/NTP CARCINOGEN LISTS.NOT CARCINOGENIC TO LAB
ANIMALS.REPRODUCTIVE ANIMAL TOXICI

Effects of Overexposure:DIZZINESS, DROWSINESS,THROAT IRRIT.
UNC

ONSC,DEATH,BLOOD PRESSURE DEPRESSION, CARDIAC SENSITIZATION,
VENTRICULAR ARRHYTHMIA, SKIN IRRIT, DEFATTING, DERM. SLIGHT TEMP
EYE IRRIT W/SLIGHT TEMP CORNEAL INJ URY.ASPIRATION INTO LUNGS
CAUSES CHEM PNEUMONIA & SYSTEMIC EFFECTS.

Medical Cond Aggravated by Exposure:ACUTE & CHRONIC LIVER DISEASE &
RHYTHM DISORDERS OF THE HEART.

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

First Aid:INHAL:REMOVE TO FRESH AIR.STOP BREATH ADMINISTER ART
RESP.CALL DR. SKI
N:REMOVE CONTAMIN CLOTH/SHOES.WASH W/SOAP/WATER.
EYES:FLUSH IMMED W/WATER FOR @LEAST 15MINS.IRRIT PERSISTS CALL DR.
INGEST:DO NOT INDUCE VOMIT.CONTACT DR/EMERG MED FACILITY IMMED.
NOTE TO DR:ADRENALIN SHOULD NEVER BE GIVEN TO PERSONS OVEREXPOSED
TO 1,1,1-TRICHLOROETHANE.

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

Flash Point Method:TCC
Flash Point:NONE
Lower Limits:7.5
Upper Limits:15
Extinguishing Media:WATER, FOAM, DRY CHEMICAL, CARBON DIOXIDE (CO2)

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED POSITIVE-PRESSURE BREATHING APPARATUS DUE TO THERMAL DECOMPOSITION PRODUCTS AND AVOID SKIN CONTACT.

Unusual Fire/Explosion Hazard:CONCENTRATED VAPORS CAN BE IGNITED BY HIGH INTENSITY IGNITION SOURCE.

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

Spill Release Procedures:EVACUATE AREA.VENTILATE.AVOID BREATH VAPS.DIKE TO CONTAIN SPILL.CLEANUP(WEAR PROT EQPMT)BY M OPPING OR W/ABSORBENT MAT
L.PLACE IN CLSD CNTNR FOR DISPOSAL.AVOID CONTAMIN OF GROUND & SURFACE WATERS.DO TO FLUSH TO SEWER.IF INDOORS TURN OFF AIRCOND/HEAT

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

Handling and Storage Precautions:AVOID CONTACT W/SKIN/BREATH VAP.DO NOT EAT/DRINK/SMOKE WORKAREA.STORE LABEL/SEAL CNTNRS IN COOL,DRY,WELL-VENTI AREA.PREVENT WATER/MOIST AIR ENTER CNTR

Other Precautions:DETERMINE EXPO LEVEL BY MONITORING PERFORMED REGRLY.NOTE:SELECT/USE/MAINTIAN PROT EQMPT/CLOTH IAW APPLICABLE STDS/REGS.ADDN INFO CONTACT CLOTH/EQPMT MFG OR VULCAN CHEM TECHN SERV DEPT.VAP HEAVIER THAN AIR;COLLECT IN LOW AREAS;SEE ASTMD4276.

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

Respiratory Protection:WHERE VAP CONCEN EXCEEDS/LIKELY TO EXCEED 350PPM NIOSH/MSHA APPROVED ORG VAP TYP RESP ACCEPTABLE.NIOSH/MSHA APPROVED SCBA OR AIRLINE RESP W/FULL FACEPC REQUIRED FOR VAP CONCEN >1000PPM & FOR SPILLS &/ OR EMERG.FOLLOW APPLI

CABLE RESP STD/REGS

Ventilation:DO NOT USE IN CLOSED OR CONFINED SPACE. OPEN DOORS &/OR WINDOWS. USE VENTILATION TO MAINTAIN EXPO LEVELS BELOW 350PPM.

Protective Gloves:VITON,POLYVINYL ALCOHOL,EQUIVALENT GLOVE

Eye Protection:SAF GLASS,CHEM GOGG &/OR FACESHIELDS.

Other Protective Equipment:SOLVENT-RESIST BOOTS/APRON/HEAGEAR &/OR FACESHIELD.CONTACT LENESE SHOULDN'T BE WORN.SAFETY SHOWER,EYEWASH STATIONS.

Work Hygienic Practices:WASH CONTAMIN CLOTH/SHOES BEFORE REUSE. WASH HANDS WEL

L AFTER HANDLING & PRIOR TO EAT/DRINK/USE RESTROOM.

Supplemental Safety and Health

HEALTH HAZ:POSSIBLE W/PROLONG CONTACT.PURE Q,4-DIETHYLENE DIOXIDE
READILY ABSORBE THRU INTACT SKIN.EYES:SLIGHT TEMP IRRIT W/SLIGHT
TEMP CORNEAL INJURY.VAP IRRIT.INGEST:SINGLE DOSE TOXICITY IS
LOW-MODE RATE.ASPIRATED INTO LUNGS FRM VOMIT CAUSING CHEM PNEUMONIA
& SYS EFFECTS.

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

HCC:T4

Boiling Pt:B.P. Text:165F,74C

Vapor Pres:100 @20

C

Vapor Density:4.6

Spec Gravity:1.32

pH:7/K

Evaporation Rate & Reference:0.4, ETHER-1

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

Appearance and Odor:CLEAR, COLOLESS LIQUID, MILDLY SWEET ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG ALKALIES,OXIDIZERS,REACTIVE METALS(IE
ALUMINUM,POTASSIUM,SODIUM,ETC).

Stability Condition to Avoid:AVOID CONTACT W/OPEN FLAME, ELECTRIC ARCS,
OR OTHER

HOT SURFACES WHICH CAN CAUSE THERMAL DECOMPOSITION.

Hazardous Decomposition Products:HYDROGEN CHLORIDE, PHOSGENE, CHLORINE.

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

Waste Disposal Methods:DO NOT REUSE DR W/O RECYCLING/RECONDITIONING IAW
APPLICABLE FED/STATE/LOC LAWS.RECOVERED LIQ MAY BE SENT TO LICENSED
RECLAIMER/INCINERATION FACILITY.CONTAMIN MATL MUST BE DISPOSED OF
IN PERMITTED WAST E MGT FACILITY.CONSULT FED/STATE/LOC AUTHORITIES.

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