

CSD INC. (OBSOLETE ADDRESS; USE 4N760) -- 1,1,1-TRICHLOROETHANE -- 6810-00-292-9625

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

Product ID:1,1,1-TRICHLOROETHANE

MSDS Date:08/01/1990

FSC:6810

NIIN:00-292-9625

MSDS Number: BNTFJ

=== Responsible Party ===

Company Name:CSD INC. (OBSOLETE ADDRESS; USE 4N760)

Address:420 SEABOARD DRIVE

City:MATTHEWS

State:NC

ZIP:28105-5073

Country:US

Info Phone Num:704-821-9822

Emergency Phone Num:704-821-9822

CAGE:5W216

=== Contractor Ident

ification ===

Company Name:CSD INC. (PRE 1985 NAME: MATHEWS, INC)

Address:420 SEABOARD DRIVE

Box:City:MATTHEWS

State:NC

ZIP:28105-5073

Country:US

Phone:704-821-9822

CAGE:5W216

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

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

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: >95%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:350 PPM

ACGIH TLV:350 PPM/450STEL;9394

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ozone Deplet

ing Chemical:1

Ingred Name:CONTAINS A PROPRIETARY INHIBITOR PKG-INCLUDES DIETHYLENE
ETHER (1.4 DIOXENE) (123-91-1) AT A LEVEL OF 2.5%. (SARA 313)

RTECS #:9999999ZZ

Other REC Limits:NONE SPECIFIED

OSHA PEL:25 PPM SKIN

ACGIH TLV:25 PPM SKIN

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

LD50 LC50 Mixture:LD50 RATS-10,000 MG/KG

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

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

Health Hazards Acute and Chron

ic:EYE: LIQ MAY CAUSE PAIN/SLIGHT

TEMPORARY IRRIT W/SLIGHT CORNEAL INJURY. VAPORS MAY IRRIT. SKIN:
PROLONG/REPEAT EXPOS MAY CAUSE IRRIT/DRYING/FLAKING. INHAL: INHAL
OF CONC OF 500-1000 PPM MAY PRODUCE MI NIMAL ANESTHETIC/NARCOTIC
EFFECTS. CONCOF 1000 PPM MAY CAUSE DIZZINESS/DRUNKENNESS. CONC OF
10,000 PPM CAN CAUSE

Explanation of Carcinogenicity:1.4 DIOTANE IS LISTED BY NTP & IARC AS
AN ANIMAL CARCINOGEN.

Effects of Overexposure: UNCONSCIOUSNESS/DEATH/BLOOD PRESS
DEPR

ESS/CARDIAC SENSITIZATION/VENTRICULAR ARRHYTHMIAS. IN
CONFINED/POORLY VENT AREAS, VAPORS CAN CAUSE UNCONSCIOUSNESS/DEATH.
AEROSOL FORM IS MORE TOXIC THAN VAPOR. INGEST: SINGLE DOSE ORAL
TOXICITY IS LOW. ASPIR OF MATL INTO LUNGS REPAIDLY ABSORBED CAN
CAUSE CHEM PNEUMONITIS-FATAL.

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

First Aid:SKIN: WASH W/SOAP & WTR. RMV CONTAM CLOTH/LAUNDER BEFORE
REUSE. DISCARD SHOES. EYE: FLUSH W/LG AMTS WTR, LIFT LIDS-GE

T MED

AID. INGEST: DO NOT INDUCE VOMITING. IMMED DRINK 2 GLASSES WTR.
NEVER GIVE AN YTHING BY MOUTH TO UNCONSCIOUS PERSON. CALL DR/TAKE
TO EMERGENCY ROOM. INHAL: MOVE TO FRESH AIR. IF BREATH
DIFFICULT-ADMIN OXYGEN, IF STOPPED-ARTIF RESP. KEEP WARM/QUIET-GET
MED AID. DO NOT GIVE+

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

Flash Point Method:TCC

Flash Point:NONE

Lower Limits:7.5

Upper Limits:15

Extinguishing Media:WATER FOG

Fire Fighting Procedures:W

EAR SELF-CONTAINED BREATHING APPARATUS WITH A
FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN
FIGHTING FIRES.

Unusual Fire/Explosion Hazard: NEVER USE WELD/CUT TORCH ON/NEAR DRUM
(EVEN EMPTY) AS PROD (EVEN RESIDUE) CAN IGNITE EXPLOSIVELY. VAPORS
CONC IN A CONFINED/POORLY VENT AREA CAN BE IGNITED*

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

Spill Release Procedures: SM: ABSORB LIQ ON PAPER/VERMICULITE/FLOOR
ABSORB/OTHER ABSORB MATL-TR
ANS TO HOOD. LG: EVAC AREA-UNPROTECT
PEOPLE UNTIL CLEANUP COMPLETE. STOP SPILL AT SOURCE/DIKE AREA TO
PREVENT SPREAD/PUMP LIQ TO SA LVAGE TANK. REMAIN LIQ MAY BE TAKEN
UP ON SAND/++

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

Handling and Storage Precautions: AVOID PROLONG CONTACT (PLASTIC, RUBBER
EQUIP, PROTECT CLOTH, CNTNRS). ADD CHLORINATED SOLVENT (FLASH PT
SUPPRESSANT) IN SUFF QTY OR MIX MAY HAVE FLASH***

Other Precautions: ***PT LWR THAN FLAMM COMPO
NENT. DONT PUT

1,1,1-TRICHLOROETHANE PRODUCTS IN ALUM OR ALLOY AEROSOL CANS. AVOID
FINELY DIVIDED ALUM. CONTACT W/ALUM PARTS IN PRESS FLUID SYS MAY
CAUSE VIOLENT REACTIONS. E MPTY CNTNRS (RETAIN PRODUCT RESIDUE)%

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

Respiratory Protection: NIOSH/MSHA AIR SUPPLD RESP (ABSENCE OF PROPER
ENVIRON CNTRL). OSHA REG PERMITS OTHER NIOSH/MSHA RESP (NEG PRESS
TYPE) UNDER SPECIFIED CONDITIONS (SEE EQUIP SUPPLIER).
ENG

INEERING/ADMIN CONTROLS SHOULD BE IMPLEMENTED TO REDUCE
EXPOSURE

Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL
EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: POLYVINYL ALCOHOL, POLYETHYLENE

Eye Protection: CHEM SPLSH GOGGLES/SAFETY GLASSES

Other Protective Equipment: WEAR IMPERVIOUS CLOTHING & BOOTS.

++CLAY/EARTH/FLOOR ABSORB/ETC-SHOVEL INTO CNTNRS. PREVENT RUN-OFF
TO SEWERS/WATER+++

Work Hygienic Practices: N/K +++BODIES. IF RUN-OFF

OCCURS, NOTIFY
AUTHORITIES AS REQ, THAT A SPILL HAS OCCURRED.
Supplemental Safety and Health
%MAY BE HAZARDOUS.

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

HCC:T4
Boiling Pt:B.P. Text:162F,79C
Melt/Freeze Pt:M.P/F.P Text:36.0F,2.2C
Vapor Pres:100 MM/HG
Spec Gravity:1.3
Viscosity:(WATER=1) .86
Evaporation Rate & Reference:ETHYL ETHER =1 / 2.60
Solubility in Water:MODERATE
Appearance and Odor:COLORLESS, CLEAR LIQUID, MILDLY SWEET ODOR
Percent Volatiles by Volume
:100
Corrosion Rate:NOT CORR

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

Stability Indicator/Materials to Avoid:YES
WATER/REACTIVE METALS (ALUMINUM/MAGNESIUM)/OPEN FLAME/WELDING
ARCS/RESISTANCE HEATERS, ETC WHICH CAN RESULT IN THERMAL **
Stability Condition to Avoid:N/K *BY HIGH ENERGY SPARK/FLAME, ETC.
VAPORS ARE HEAVIER THAN AIR/WILL COLLECT IN LOW AREAS.
Hazardous Decomposition Products:LIQUID OXYGEN OR OTHER STRONG OXIDANTS
MAY FORM EXPLOSIVE MIXTURES
WITH 1,1,1-TRICHLOROETHANE.

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

Waste Disposal Methods:DISPOSE OF IN ACCORD W/ALL LOCAL/STATE/FEDERAL
GOVERNMENT. @HUMANS: CARDIAC/LIVER ABNORMALITIES/KIDNEY DAMAGE.
+STIMULANTS. EPINEPHRINE OR EPHEDRINE MAY ADVERSELY AFFECT THE
HEART WITH FATAL R ESULTS.

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