

CSD INC. -- 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: BJSFV

=== Responsible Party ===

Company Name:CSD INC.

Address:5 HACKBERRY LANE

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Info Phone Num:409-756-1065

Emergency Phone Num:409-756-1065

CAGE:JO933

=== Contractor Identification ===

Company Name:CHEMICAL SPECIALISTS AND DEVELOPME
NT INC

Address:2210 HACKBERRY LN

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:4N760

Company Name:CSD INC.

Address:5 HACKBERRY LANE

Box:687

City:CONROE

State:TX

ZIP:77305

Country:US

Phone:409-756-1065

CAGE:JO933

===== 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 SPECIFIED

OSHA PEL:350 PPM/450 STEL

ACGIH TLV:350 PP

M/450STEL;9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS
Ozone Depleting Chemical:1

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)
CAS:123-91-1
RTECS #:JG8225000
Fraction by Wt: 2.5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:S, 100 PPM
ACGIH TLV:S, 25 PPM; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) = 10300 MG/KG (1,1,1-TRI
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Re
ports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: MAY CAUSE EYE, SKIN AND
RESPIRATORY TRACT IRRITATION. CNS DEPRESSION. LOSS OF CONSCIOUSNESS
AND EVEN DEATH CAN OCCUR AT HIGH LEVELS OF EXPOSURE. EXCESS
EXPOSURE CAN LEAD TO BLOOD PRESSURE DEPRES SION, CARDIAC
SENSITIZATION, AND VENTRICULAR ARRHYTHMIA, LIVER EFFECTS. TARGET
ORGANS-CNS, SKIN, EYES, LIVER.
Explanation of Carcinogenicity:NOT LISTED AS A CARCINOGEN BY NTP, IARC
OR OSHA.
(1,4-DIOXANE USED AS A PRESERVATIVE IS A SUSPECT ANIMAL
CARCINOGEN)
Effects of Overexposure:INCOORDINATION AND IMPAIRED JUDGMENT MAY OCCUR
AT VAPOR EXPOSURES FROM 500-1000 PPM. DIZZINESS, DROWSINESS, AND
GENERAL ANESTHETIC EFFECTS MAY OCCUR IN RANGES OF 1000 PPM AND
HIGHER. MAY CAUSE EYE CON JUNCTIVITIS.
Medical Cond Aggravated by Exposure:INCREASED SENSITIVITY TO ADRENALINE
MAY BE CAUSED BY OVER EXPOSURE.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR.
IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE:
FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET
MEDICAL AT TENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH
SOAP AND WATER PROMPTLY. INGESTION: DO NOT INDUCE VOMITING. GIVE
MILK OR USP MINERAL OIL. GET IMMEDIATE MEDICAL ATTENTION. AVOID
ASPIRATION.

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

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Flash Point Method:TCC
Flash Point:NONE
Lower Limits:7.5
Upper Limits:15.0
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:SMALL SPILL: WIPE UP WITH RAGS OR TOWELS.
LARGE SPILLS: WEAR NIOSH APPROVED RESPIRATOR. VENTILATE AREA. DIKE
TO RETAIN FLUID. PUMP UP FREE LIQUID. RESIDUE WILL EVAPORATE
QUICKLY. DO NOT FLUSH TO SEWER OR WATERWAY.
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED
LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE.
KEEP CONTAINERS CLOSED WHEN NOT IN USE.
Other Precautions:DO NOT USE WITH ALUMINUM. BE SURE THAT NO ALUMINUM
CONTAINERS, AEROSOLS, FITTINGS, ETC. ARE USED WITH THIS MATERIAL.
AVOID BREATHING VAPOR. PRACTICE GOOD PERSONAL HYGIENE. READ AND
FOLLOW DIRECTIONS ON LABEL. DO NOT REUSE CONTAINERS.

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

Respiratory Protection:IN HIGH VAPOR AREA, USE NIOSH/MSHA APPROVED
RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE SELF-CONTAINED
BREATHING APPARATUS IF VAPOR LEVELS EXCEED 1000 PPM.
Ventilation:LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF
TLV.
Protective Gloves:NEOPRENE, PVA GLOVES RECOMMENDED.
Eye Protection:USE CHEMICAL SAFETY GOGGLES.
Other Protective Equipment:APRON AND WORK CLOTHING TO MINIMIZE
EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED. WEAR
LONG-SLEEVED SHIRTS.
Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND

BEFORE EATING,
SMOKING OR USING TOILET FACILITIES. DO NOT BREATH VAPORS OR MIST.
Supplemental Safety and Health
TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES. CONSIDER RUBBER BOOTS AS
ADDITIONAL PROTECTION FOR LONG TERM WORK WITH THIS MATERIAL. DO NOT
CUT, GRIND, WELD, OR DRILL ON OR NEAR THIS MATERIAL.

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

HCC:T4
Boiling Pt:B.P. Text:162F,72C
Melt/Freeze Pt:M.P/F.P Text:36.0F,2.2C
Vapor Pres:100
Vapor Density:4.6
Spec
Gravity:1.3
Evaporation Rate & Reference:2.6 ETHER=1
Solubility in Water:MODERATE
Appearance and Odor:CLEAR,COLORLESS LIQUID; MILDLY SWEET ODOR
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, ALKALIS,WATER,MOIST AIR, ALUMINUM, ZINC,
MAGNESIUM. DO NOT STORE MATERIAL IN ALUMINUM CONTAINER
Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, OPEN FLAMES,
WELDING
ARCS.
Hazardous Decomposition Products:WHEN INVOLVED IN FIRE,
1,1,1-TRICHLOROETHANE EMITS HIGHLY TOXIC AND IRRITATING HYDROGEN
CHLORIDE AND PHOSGENE FUMES.

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

Waste Disposal Methods:DISPOSE OF I/A/W FEDERAL, STATE & LOCAL
REGULATIONS. UNUSED MATERIAL WILL BE A LAND-BANNED HAZARDOUS WASTE.

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