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 Id entification ===

Company Name: CHEMICAL SPECIALISTS AND DEVELOPMENT 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-TRICHLOROEHANE) (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 PPM/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 Reports 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 DEPRE SSION, CARDIAC SENSITIZATION, AND VENTRICULAR ARRHYTHMIA, LIVER EFFECTS. TARGET ORGANS-CNS, SKIN, EYES, LIVER.

**Explanation of Carci** 

nogenicity: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 ANESTETHIC 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.

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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.
=== ==================================
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 M  AY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.
======== 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 Pr ecautions: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 O N LABEL. DO NOT REUSE CONTAINERS.
====== Exposure Controls/Personal Protection ========
Resp

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

iratory 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-SLEEV

ED 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.

HCC:T4

Boiling Pt:B.P. Text:162F,72C

Melt/Freeze P

t:M.P/F.P Text:36.0F,2.2C

Vapor Pres:100 Vapor Density:4.6 Spec Gravity:1.3

Evaporation Rate & Dry 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 Conditi

on 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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