

CHEM CENTRAL/KANSAS CITY -- TRICHLOROETHYLENE, TECHNICAL -- 6810-00-184-4800
===== Product Identification =====

Product ID:TRICHLOROETHYLENE, TECHNICAL

MSDS Date:12/01/1994

FSC:6810

NIIN:00-184-4800

MSDS Number: BVWWJ

=== Responsible Party ===

Company Name:CHEM CENTRAL/KANSAS CITY

Address:910 N PROSPECT AVE

City:KANSAS CITY

State:MO

ZIP:64120

Country:US

Info Phone Num:OUT OF BUSINESS

Emergency Ph

one Num:800-424-9300

Preparer's Name:DGSC-SHH 804-279-4371

CAGE:0NGC0

=== Contractor Identification ===

Company Name:CHEM CENTRAL/KANSAS CITY

Address:910 N PROSPECT AVE

City:KANSAS CITY

State:MO

ZIP:64120

Country:US

Phone:800-424-9300

CAGE:0NGC0

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

Ingred Name:TRICHLOROETHYLENE (SARA III)

CAS:79-01-6

RTECS #:KX4550000

Fraction by Wt: 99.4%

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM/100 STEL

ACGIH TLV:50 PPM/100,A5STEL;93

EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:1,2-BUTYLENE OXIDE (SARA III)
CAS:106-88-7
RTECS #:EK3675000
Fraction by Wt: 0.5%
Other REC Limits:40 PPM; 100 PPM MAX.
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:ORAL LD50 (RAT) = 4920 MG/KG
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

IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CENTRAL NERVOUS SYSTEM DEPRESSANT. LOSS OF CONSCIOUSNESS AND EVEN DEATH CAN OCCUR AT HIGH LEVELS OF EXPOSURE. PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION. HIGH EXPOSURE LEVELS HAVE CAUSED LIVER OR KIDNEY EFFECTS IN LAB ANIMALS.

Explanation of Carcinogenicity:A POS. RESPONSE HAS OCCURRED IN MICE GIVEN LARGE DOSES OF TRICHLOROETHYLENE. NO CARCINOGENIC HAZARD TO MAN IS INDICATED.

Effects of Overexposure:EYE IR RITATION, DRYING OR FLAKING OF SKIN, MAY CAUSE REDDENING OF THE SKIN. VAPORS CAN CAUSE ANESTHETIC OR IRRITANT EFFECTS, DIZZINESS, DRUNKENNESS, UNCONSCIOUSNESS AND EVEN DEATH.

Medical Cond Aggravated by Exposure:INCREASED SENSITIVITY TO ADRENALINE MAY BE CAUSED BY OVER EXPOSURE. PERSONS WITH LIVER OR KIDNEY DISEASE MAY BE AT INCREASED RISK.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE MOUTH- TO-MOUTH

RESUSCITATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELID. GET MEDICAL ATTENTION. SKIN: WASH WITH PLENTY OF SOAP & WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. INGESTION:DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point Method:TCC
Flash Point:NONE
Autoignition Temp:Au

toignition Temp Text:788F

Lower Limits:8.0

Upper Limits:44.8

Extinguishing Media:NON-FLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND FULL FACE-PIECE SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.

Unusual Fire/Explosion Hazard:MAY EMIT TOXIC FUMES OF HYDROGEN CHLORIDE, CHLORINE, AND PHOSGENE.

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

Spill Release Procedures:SMALL SPILLS: MOP UP, WIPE UP OR SOAK UP IMMEDIATELY. REMOVE TO OUT OF DOORS. LARGE SPILLS:EVACUATE AREA. CONTAIN/DIKE LIQUID; TRANSFER TO CLOSED METAL CONTAINERS OR ABSORB IN INERT MATERIAL AND SAVE IN CLOSED DRUMS. KEEP OUT OF WATERWAYS.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:HANDLE WITH REASONABLE CARE. AVOID BREATHING VAPORS. STORE IN COOL PLACE. VAPORS ARE HEAVIER THAN AIR & WILL COLLECT IN LOW OR ENCLOSED AREAS.

Other Precautions:DO NOT ENTER AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS AND OTHER CONFINED AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED & AN OBSERVER IS PRESENT FOR ASSISTANCE.

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

Respiratory Protection:USE A NIOSH/MSHA APPROVED AIR-PURIFYING RESPIRATOR WHEN EXPOSURE LEVELS SLIGHTLY EXCEED GUIDELINES. FOR HIGH EXPOSURE LEVELS OR CONFINED AREAS, USE AN APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS. USE ONLY WITH ADEQUATE VENTILATION.

Protective Gloves:NEOPRENE, PVA GLOVES RECOMMENDED.

Eye Protection:USE CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:USE BOOTS, APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE AS REQUIRED. EYE WASH STATION AND SAFETY SHOWER RECOMMENDED.

Work Hygienic P

practices:WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH SKIN AND CLOTHING. DO NOT SMOKE WHILE USING THIS MATERIAL.

Supplemental Safety and Health

NOTE TO PHYSICIAN: OVEREXPOSURE WILL CAUSE SYMPTOMS OF NARCOSIS AND, IF ACCOMPANIED BY ANOXIA, MAY TEMPORARILY INCREASE CARDIAC IRRITABILITY. MAINTAIN ADEQUATE OXYGENATION UNTIL RECOVERY. SYMPATHOMIMETIC AMINES, SUCH AS EPINEPHRINE, MAY PRECIPITATE ARRHYTHMIAS. USE ONLY AFTER CAREFUL CONSIDERATION.

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

HCC:T4

Boiling Pt:B.P. Text:189F,87C

Melt/Freeze Pt:M.P/F.P Text:-123F,-86C

Vapor Pres:60

Vapor Density:4.53

Spec Gravity:1.46

Evaporation Rate & Reference:4.46 (N-BUTYL ACETATE=1)

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR, COLORLESS LIQUID, CHLOROFORM-LIKE ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG ALKALIS, METALLIC ALUMINUM
AND ZINC POWDERS.

Stability Condition to Avoid:AVOID OPEN FLAMES, WELDING ARCS, OR OTHER
HIGH TEMPERATURE SOURCES WHICH INDUCE THERMAL DECOMPOSITION OF
SOLVENT VAPOR.

Hazardous Decomposition Products:WHEN INVOLVED IN FIRE,
TRICHLOROETHYLENE EMITS HIGHLY TOXIC AND IRRITATING HYDROGEN
CHLORIDE AND PHOSGENE FUMES.

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

Waste Disposal Methods:RECOMMENDED METHOD OF DISPOSAL OF UNUSED
MATERIAL IS TO SEND IT TO LICENSED
RECLAIMERS OR TO PERMITTED
INCINERATORS. ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH
LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT DUMP INTO SEWERS OR
ANY BODY OF WATER.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its

use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.