



chemists helping chemists in research & industry

aldrich chemical co.

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DATE: 03/10/87
CUST # 938609 P.O. #

M A T E R I A L S A F E T Y D A T A S H E E T

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IDENTIFICATION

PRODUCT # 10734-4
CAS # 56-23-5

NAME: CARBON TETRACHLORIDE, 99%

TOXICITY HAZARDS

RTECS # FG4900000

CARBON TETRACHLORIDE

IRRITATION DATA

SKN-RBT 4 MG MLD
EYE-RBT 2200 UG/30S MLD
EYE-RBT 500 MG/24H MLD

TOXICITY DATA

ORL-HMN LDLO:43 MG/KG
IHL-HMN LCLO:1000 PPM
IHL-HMN LCLO:5 PPH/5M
UNR-MAN LDLO:93 MG/KG
ORL-RAT LD50:2800 MG/KG
IHL-RAT LC50:8000 PPM/4H
SKN-RAT LD50:5070 MG/KG
IPR-RAT LD50:1500 MG/KG
ORL-MUS LD50:8263 MG/KG
IHL-MUS LC50:9526 PPM/8H
IPR-MUS LD50:572 MG/KG
IPR-DOG LD50:1500 MG/KG
ORL-RBT LD50:5760 MG/KG
IVN-RBT LD50:5840 MG/KG
ORL-GPG LD50:5760 MG/KG
IHL-MAM LC50:34500 MG/M3

XEURAQ MDDC-1715
XEURAQ MDDC-1715
28ZPAK -,28,72

32ZWAA 8,128,74
PCOC** -,198,66
TABIA2 3,231,33
85DCAI 2,73,70
TXAPA9 17,498,70
NPIRI* 1,16,74
SPEADM 78-1,16,78
XEURAQ MDDC-1715
JPPMAB 3,169,51
JIHTAB 29,382,47
PHMCAA 10,172,68
TXAPA9 10,119,67
GISAAA 33(1),32,68
ZAPPAN 118,305,74
85GMAT -,33,82
GTPZAB 24(1),17,80

REVIEWS, STANDARDS, AND REGULATIONS

CARCINOGENIC REVIEW:ANIMAL POSITIVE IMEMDT 20,371,79
CARCINOGENIC REVIEW:HUMAN SUSPECTED IMEMDT 20,371,79
CARCINOGENIC REVIEW:ANIMAL POSITIVE IMEMDT 1,53,72
CARCINOGENIC REVIEW:HUMAN INDEFINITE IMEMDT 1,53,72
MSHA STANDARD-AIR:TWA 10 PPM (65 MG/M3) (SKIN) DTLVS* 3,43,71
OSHA STANDARD-AIR:TWA 10 PPM;CL 25 PPM;PK 200 PPM/5M/4H FEREAC 39,
23540,74
NIOSH REL TO CARBON TETRACHLORIDE-AIR:CL 2 PPM/60M MMWR** 34(1S),10S,
85

EPA GENETIC TOXICOLOGY PROGRAM, JANUARY 1984
REPORTED IN EPA TSCA INVENTORY, 1983
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0979-0310;8EHQ-0378-0110;
8EHQ-0378-0113

"NIOSH MANUAL OF ANALYTICAL METHODS, 3RD ED." SEE: METHOD 1003
NTP CARCINOGENESIS STUDIES; SELECTED, JUNE 1986
NTP FOURTH ANNUAL REPORT ON CARCINOGENS, 1984
MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,
82

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS)
DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

HEALTH HAZARD DATA

ACUTE EFFECTS

DANGER
POISON
MAY BE FATAL IF INHALED OR SWALLOWED.
EXPOSURE CAN CAUSE:

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CATALOG # 10734-4

NAME: CARBON TETRACHLORIDE, 99%

STOMACH PAINS, VOMITING, DIARRHEA.
NAUSEA, DIZZINESS AND HEADACHE

DAMAGE TO THE EYES

DAMAGE TO THE LIVER

DAMAGE TO THE KIDNEYS

VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.

CARCINOGEN.

READILY ABSORBED THROUGH SKIN.

EXPOSURE TO AND/OR CONSUMPTION OF ALCOHOL

MAY INCREASE TOXIC EFFECTS.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.

CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED
IRRIGATION WITH COPIOUS AMOUNTS OF WATER.

ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT,
GIVE OXYGEN.

CALL A PHYSICIAN.

REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

----- PHYSICAL DATA -----

MELTING POINT: -23 C

BOILING POINT: 76 C

SPECIFIC GRAVITY: 1.594

----- FIRE AND EXPLOSION HAZARD DATA -----

FLASH POINT: NONE

EXTINGUISHING MEDIA

NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

----- REACTIVITY DATA -----

INCOMPATIBILITIES

ALKALI METALS

FINELY POWDERED METALS

OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

PHOSGENE GAS

CARBON MONOXIDE, CARBON DIOXIDE

----- SPILL OR LEAK PROCEDURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.

SHUT OFF ALL SOURCES OF IGNITION.

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.

ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR
DISPOSAL.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

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NAME: CARBON TETRACHLORIDE, 99%

WASTE DISPOSAL METHOD

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

WEAR APPROPRIATE OSHA/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

AVOID CONTACT AND INHALATION.

KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION.

DO NOT ENTER STORAGE AREAS THAT ARE NOT ADEQUATELY VENTILATED.

WASH THOROUGHLY AFTER HANDLING.

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.

STORE AWAY FROM HEAT AND DIRECT SUNLIGHT.

----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

ADDITIONAL INFORMATION

REACTS VIOLENTLY WITH DIMETHYL FORMAMIDE (DMF) ABOVE 65 C.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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