



chemists helping chemists in research & industry

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RECEIVING

DATE: 12/09/88
CUST # 938609 P.O. # 61652

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 # D6510-0 NAME: DICHLOROMETHANE, 99.6%, A.C.S. REAGENT
CAS # 75-09-2
MF: CH₂CL₂

SYNONYMS

AEROTHENE MM * CHLORURE DE METHYLENE (FRENCH) * DCM * DICHLOROMETHANE
* DICHLOROMETHANE (DOT) * METHANE DICHLORIDE * METHYLENE BICHLORIDE *
METHYLENE CHLORIDE * METHYLENE CHLORIDE (ACGIH, DOT) * METHYLENE
DICHLORIDE * METYLENU CHLOREK (POLISH) * NARKOTIL * NCI-C50102 * R 30
* RCRA WASTE NUMBER U080 * SOLAESTHIN * SOLMETHINE * UN 1593 (DOT) *

TOXICITY HAZARDS

RTECS # PA8050000

METHANE, DICHLORO-

IRRITATION DATA

SKN-RBT 810 MG/24H SEV
SKN-RBT 100 MG/24H MOD
EYE-RBT 162 MG MOD
EYE-RBT 10 MG MLD
EYE-RBT 500 MG/24H MLD

EJTXAZ 9,171,76
85JCAE -,88,86
EJTXAZ 9,171,76
TXCYAC 6,173,76
85JCAE -,88,86

TOXICITY DATA

ORL-HMN LD₅₀:357 MG/KG
ORL-RAT LD₅₀:1600 MG/KG
IHL-RAT LC₅₀:88000 MG/M³/30M
IPR-RAT LD₅₀:916 MG/KG
IHL-MUS LC₅₀:14400 PPM/7H
IPR-MUS LD₅₀:437 MG/KG
SCU-MUS LD₅₀:6460 MG/KG
UNR-MUS LD₅₀:4770 MG/KG

34ZIAG -,390,69
FAONAU 48A,94,70
FAVUAI 7,35,75
ENVRAL 40,411,86
NIHBAZ 191,1,49
AGGHAR 18,109,60
TXAPA9 4,354,62
ESKGA2 28,P31,82

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 50 PPM 85INA8 5,391(86),86
ACGIH TLV-SUSPECTED CARCINOGEN 85INA8 5,391(86),86
IARC CANCER REVIEW:ANIMAL SUFFICIENT EVIDENCE IMEMDT 41,43,86
IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 20,449,79
IARC CANCER REVIEW:HUMAN INADEQUATE EVIDENCE IMEMDT 41,43,86
IARC CANCER REVIEW:GROUP 2B IMSUDL 7,194,87
MSHA STANDARD-AIR:TWA 500 PPM (1750 MG/M³) DTLVS* 3,171,71
OSHA STANDARD-AIR:TWA 500 PPM;CL 1000 PPM;PK 2000 PPM/5M/2H FEREAC 39,
23540,74
NIOSH REL TO METHYLENE CHLORIDE-AIR:TWA 75 PPM;CL 500 PPM/15M MMWR**
34(1S),22S,85
EPA GENETOX PROGRAM 1988, POSITIVE: CELL TRANSFORM.-RLV F344 RAT
EMBRYO
EPA GENETOX PROGRAM 1988, POSITIVE: HISTIDINE REVERSION-AMES TEST
EPA GENETOX PROGRAM 1988, POSITIVE: S CEREVISIAE GENE CONVERSION; S
CEREVISIAE-HOMOZYGOSIS
EPA GENETOX PROGRAM 1988, POSITIVE: S CEREVISIAE-REVERSION
EPA GENETOX PROGRAM 1988, NEGATIVE: D MELANOGASTER SEX-LINKED LETHAL
EPA TSCA CHEMICAL INVENTORY, 1986
EPA TSCA 8(A) PRELIMINARY ASSESSMENT INFORMATION, FINAL RULE FEREAC
47,26992,82
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-0680-0345;8EHQ-0180-0324
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1988
NIOSH CURRENT INTELLIGENCE BULLETIN 46, 1986

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CATALOG # D6510-0

NAME: DICHLOROMETHANE, 99.6%, A.C.S. REAGENT

NIOSH ANALYTICAL METHODS: SEE METHYLENE CHLORIDE, 1005
NTP CARCINOGENESIS STUDIES (INHALATION); CLEAR EVIDENCE: MOUSE, RAT
NTP* NTP-TR-306, 86
NTP CARCINOGENESIS STUDIES; ON TEST (TWO YEAR STUDIES), JANUARY 1988
MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,
82

TARGET ORGAN DATA

PERIPHERAL NERVE AND SENSATION (PARESTHESIA)
BEHAVIORAL (ALTERED SLEEP TIME)
BEHAVIORAL (EUPHORIA)
BEHAVIORAL (SOMNOLENCE)
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
BEHAVIORAL (ATAXIA)
CARDIAC (CHANGE IN RATE)
LUNGS, THORAX OR RESPIRATION (TUMORS)
LIVER (LIVER FUNCTION TESTS IMPAIRED)
SKIN AND APPENDAGES (TUMORS)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (UROGENITAL SYSTEM)
TUMORIGENIC (CARCINOGENIC BY RTECS CRITERIA)
TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)

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

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.

EXPOSURE CAN CAUSE:

NAUSEA, DIZZINESS AND HEADACHE
MAY CAUSE NERVOUS SYSTEM DISTURBANCES.

CHRONIC EFFECTS

DAMAGE TO THE LIVER
DAMAGE TO THE KIDNEYS
POSSIBLE CARCINOGEN.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
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. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

ADDITIONAL INFORMATION

DICHLOROMETHANE IS METABOLIZED IN THE BODY PRODUCING CARBON MONOXIDE
WHICH INCREASES AND SUSTAINS CARBOXYHEMOGLOBIN LEVELS IN THE BLOOD,
REDUCING THE OXYGEN-CARRYING CAPACITY OF THE BLOOD.

PHYSICAL DATA

MELTING POINT: -97 C
BOILING POINT: 40 C TO 41 C
SPECIFIC GRAVITY: 1.325
VAPOR DENSITY: 2.9
VAPOR PRESSURE: 340.0 MM @ 20 C

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CATALOG # D6510-0

NAME: DICHLOROMETHANE, 99.6%, A.C.S. REAGENT

420.0 MM @ 25 C

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

AUTO IGNITION TEMP.: 1223 F
LOWER EXPLOSION LEVEL: 12%
UPPER EXPLOSION LEVEL: 19% @ 100 C

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
ALUMINUM
HEAT

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE
HYDROGEN CHLORIDE GAS
PHOSGENE GAS

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

EVACUATE AREA.
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.

WASTE DISPOSAL METHOD

THE MATERIAL SHOULD BE IGNITED IN THE PRESENCE OF SODIUM CARBONATE
AND SLAKED LIME (CALCIUM HYDROXIDE). THE SUBSTANCE SHOULD BE MIXED
WITH VERMICULITE AND THEN WITH THE DRY CAUSTICS, WRAPPED IN PAPER AND
BURNED 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 NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

DO NOT BREATHE VAPOR.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

READILY ABSORBED THROUGH SKIN.

WASH THOROUGHLY AFTER HANDLING.

TOXIC.

POSSIBLE CARCINOGEN.

IRRITANT.

NEUROLOGICAL HAZARD.

KEEP TIGHTLY CLOSED.

KEEP AWAY FROM HEAT AND OPEN FLAME.

STORE IN A COOL DRY PLACE.



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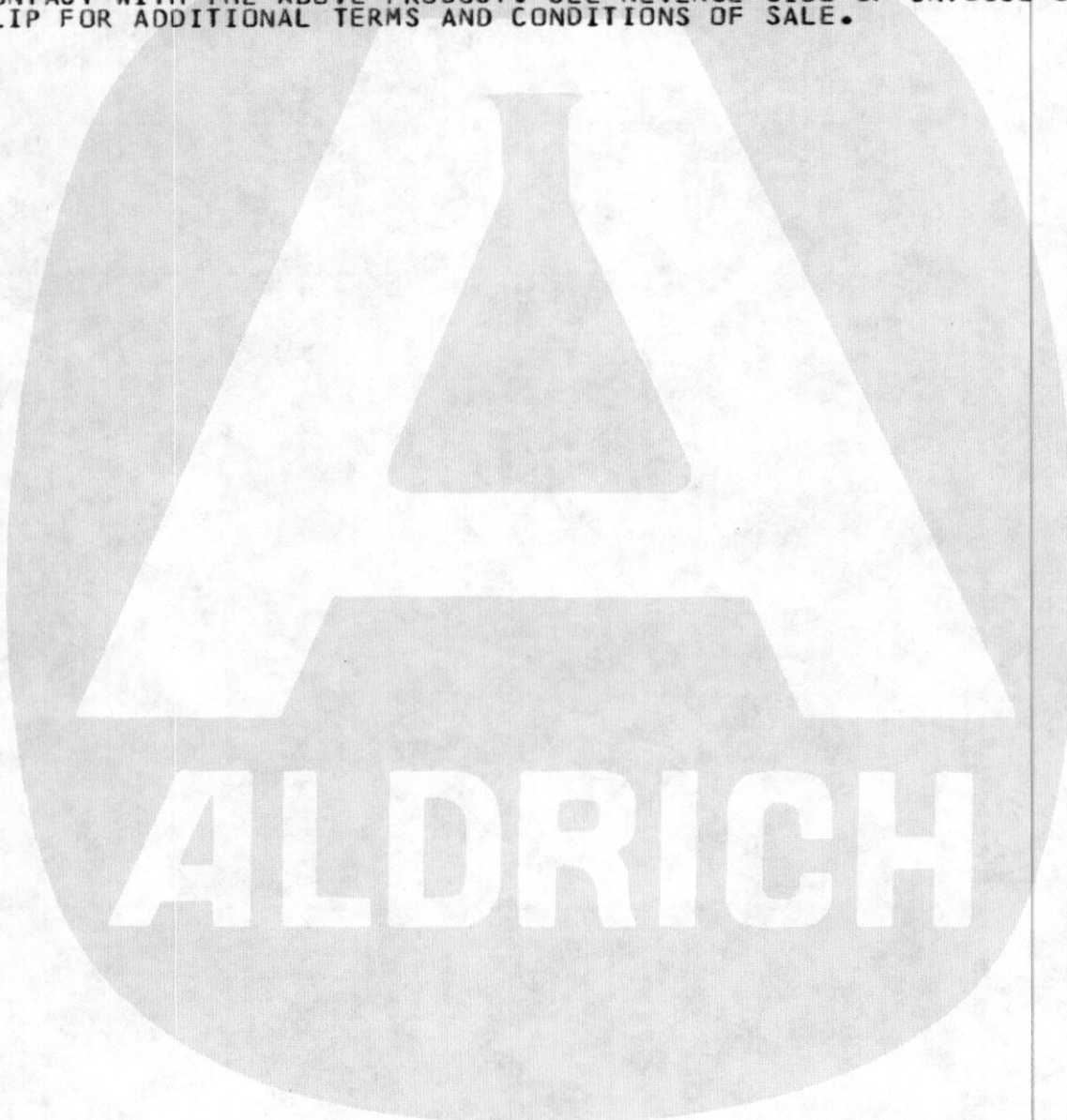
CATALOG # D6510-0

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

NOT APPLICABLE

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