

Valid 11/2002 - 01/2003

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

SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -

CATALOG #: 20835
NAME: CACODYLIC ACID

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 75-60-5
MF: C2H7ASO2
EC NO: 200-883-4

SYNONYMS

ACIDE CACODYLIQUE (FRENCH) * ACIDE DIMETHYLARSINIQUE (FRENCH) * ANSAR
138 * ARSAN * ARSINIC ACID, DIMETHYL- (9CI) * CHEXMATE * COTTON AIDE
HC * DIMETHYLARSINIC ACID * DIMETHYLARSINIC ACID *
HYDROXYDIMETHYLARSINE OXIDE * KYSELINA KAKODYLOVA (CZECH) * PHYTAR
138 * PHYTAR 600 * RCRA WASTE NUMBER U136 * SILVISAR 510 * SYLVICOR *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

TOXIC

HARMFUL IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
MAY CAUSE HARM TO THE UNBORN CHILD.
LIMITED EVIDENCE OF CARCINOGENIC EFFECT.
POSSIBLE RISK OF IMPAIRED FERTILITY.

CALIF. PROP. 65 CARCINOGEN.

TARGET ORGAN(S):

KIDNEYS

G.I. SYSTEM

AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN IMMEDIATELY.

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

IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -
 WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
 WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.
 SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
 AVOID RAISING DUST.
 VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
 EVACUATE AREA.

SECTION 7. - - - - - HANDLING AND STORAGE- - - - -
 REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -
 USE ONLY IN A CHEMICAL FUME HOOD.
 SAFETY SHOWER AND EYE BATH.
 WASH CONTAMINATED CLOTHING BEFORE REUSE.
 WASH THOROUGHLY AFTER HANDLING.
 DO NOT BREATHE DUST.
 DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
 AVOID PROLONGED OR REPEATED EXPOSURE.
 NIOSH/MSHA-APPROVED RESPIRATOR.
 COMPATIBLE CHEMICAL-RESISTANT GLOVES.
 HANDLE WITH GLOVES IN HOOD.
 CHEMICAL SAFETY GOGGLES.
 KEEP TIGHTLY CLOSED.
 STORE IN A COOL DRY PLACE.
 STORE WITH DESICCANT.
 HYGROSCOPIC

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -
 APPEARANCE AND ODOR
 SOLID.
 PHYSICAL PROPERTIES
 MELTING POINT: 195 - 196 C

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -
 STABILITY
 STABLE.
 INCOMPATIBILITIES
 PROTECT FROM MOISTURE.
 STRONG OXIDIZING AGENTS
 STRONG BASES
 HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
 CARBON MONOXIDE, CARBON DIOXIDE
 ARSENIC OXIDES
 HAZARDOUS POLYMERIZATION
 WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -
 ACUTE EFFECTS
 CAUSES SKIN IRRITATION.
 MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
 CAUSES EYE IRRITATION.
 MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
 MAY BE HARMFUL IF INHALED.
 HARMFUL IF SWALLOWED.
 CACODYLIC ACID MAY BE PARTIALLY REDUCED TO INORGANIC ARSENIC IN THE BODY.
 EXPOSURE TO ARSENIC COMPOUNDS CAN CAUSE BURNING AND DRYNESS OF THE ORAL AND NASAL CAVITIES, MUSCLE SPASMS, IRRITATION OF THE GASTROINTESTINAL TRACT, NAUSEA, VOMITING AND DIARRHEA WHICH CAN PROGRESS TO SHOCK AND DEATH.
 THE TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.
 OTHER SYMPTOMS OF EXPOSURE CAN INCLUDE DRY MOUTH, METALLIC TASTE, DROWSINESS, LOSS OF APPETITE, TREMORS, CONVULSIONS, RESPIRATORY ARREST AND GARLIC ODOR TO BREATH AND PERSPIRATION.

CHRONIC EFFECTS
 MAY CAUSE CONGENITAL MALFORMATION IN THE FETUS.

THIS PRODUCT IS OR CONTAINS A COMPONENT THAT IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY BASED ON ITS IARC, ACGIH, NTP OR EPA CLASSIFICATION.

TARGET ORGAN(S):

KIDNEYS
G.I. SYSTEM
HEART
BRAIN
SKIN
BONE MARROW
NERVES
LIVER

LABORATORY EXPERIMENTS HAVE SHOWN MUTAGENIC EFFECTS.
OVEREXPOSURE MAY CAUSE REPRODUCTIVE DISORDER(S) BASED ON TESTS WITH LABORATORY ANIMALS.

RTECS #: CH7525000

ARSINE OXIDE, DIMETHYLHYDROXY-IRRITATION DATA

SKN-RAT 2600 MG/M3/2H	TXAPA9 37,165,1976
EYE-RAT 2600 MG/M3/2H	TXAPA9 37,165,1976
SKN-MUS 2600 MG/M3/2H	TXAPA9 37,165,1976
EYE-MUS 2600 MG/M3/2H	TXAPA9 37,165,1976

TOXICITY DATA

ORL-RAT LD50:644 MG/KG	FAATDF 7,299,1986
ORL-MUS LD50:1200 MG/KG	JAFCAU 45,449,1997
IPR-MUS LD50:500 MG/KG	NTIS** AD295-864
UNR-MUS LD50:185 MG/KG	30ZDA9 -,393,1971

TARGET ORGAN DATA

LUNGS, THORAX OR RESPIRATION (TUMORS)
BLOOD (TUMORS)
EFFECTS ON EMBRYO OR FETUS (FETOTOXICITY)
EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CENTRAL NERVOUS SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CRANIOFACIAL)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
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.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.
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 AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -
CONTACT FLUKA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -
EUROPEAN INFORMATION

EC INDEX NO: 033-002-00-5
TOXIC
R 23/25
TOXIC BY INHALATION AND IF SWALLOWED.
R 50/53
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S 20/21
WHEN USING DO NOT EAT, DRINK OR SMOKE.
S 28
AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.
S 45
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

S 60

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.

S 61

AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 23,39,1980

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,1989

MSHA STANDARD-AIR:TWA 0.5 MG(AS)/M3

DTLVS* 3,16,1971

OSHA PEL (GEN INDU):8H TWA 0.5 MG(AS)/M3

CFRGBR 29,1910.1000,1994

OSHA PEL (CONSTRUC):8H TWA 0.5 MG(AS)/M3

CFRGBR 29,1926.55,1994

OSHA PEL (SHIPYARD):8H TWA 0.5 MG(AS)/M3

CFRGBR 29,1915.1000,1993

OSHA PEL (FED CONT):8H TWA 0.5 MG(AS)/M3

CFRGBR 41,50-204.50,1994

OEL-ARAB REPUBLIC OF EGYPT: TWA 0.2 MG(AS)/M3, JAN1993

OEL-AUSTRALIA: TWA 0.05 MG(AS)/M3, CARCINOGEN, JAN1993

OEL-BELGIUM: TWA 0.2 MG(AS)/M3, JAN1993

OEL-FINLAND: CARCINOGEN, JAN1993

OEL-FRANCE: VME 0.2 MG(AS)/M3, JAN1993

OEL-HUNGARY: STEL 0.5 MG(AS)/M3, CARCINOGEN, JAN1993

OEL-INDIA: TWA 0.2 MG(AS)/M3, JAN1993

OEL-NORWAY: TWA 0.01 MG(AS)/M3, JAN1999

OEL-THE PHILIPPINES: TWA 0.5 MG(AS)/M3, JAN1993

OEL-POLAND: MAC(TWA) 0.3 MG(AS)/M3, JAN1993

OEL-SWEDEN: NGV 0.03 MG(AS)/M3, CARCINOGEN, JAN1999

OEL-SWITZERLAND: MAK-W 0.1 MG(AS)/M3, CARCINOGEN, JAN1999

OEL-THAILAND: TWA 0.5 MG(AS)/M3, JAN1993

OEL-TURKEY: TWA 0.5 MG(AS)/M3, JAN1993

OEL-UNITED KINGDOM: TWA 0.1 MG(AS)/M3, SEP2000

OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV;

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NOHS 1974: HZD 84735; NIS 3; TNF 88; NOS 3; TNE 309

NOES 1983: HZD 84735; NIS 1; TNF 55; NOS 4; TNE 354; TFE 304

EPA GENETOX PROGRAM 1988, POSITIVE: S CEREVISIAE-HOMOZYGOSIS

EPA GENETOX PROGRAM 1988, NEGATIVE: D MELANOGASTER SEX-LINKED LETHAL

EPA GENETOX PROGRAM 1988, NEGATIVE: IN VITRO UDS-HUMAN FIBROBLAST; TRP

REVERSION

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: B SUBTILIS REC ASSAY; E COLI

POLA WITHOUT S9

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: HISTIDINE REVERSION-AMES TEST

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

ON EPA IRIS DATABASE

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

NIOSH ANALYTICAL METHOD, 1994: ARSENIC, ORGANO-, 5022

U.S. INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS - ARSENIC COMPOUNDS.

THIS PRODUCT IS OR CONTAINS CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

SECTION 16. - - - - - OTHER INFORMATION- - - - -

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