



chemists helping chemists in research & industry

**aldrich chemical co.**

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ATTN: SAFETY DIRECTOR  
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WHITEWATER WI 53190

DATE: 01/12/90  
CUST#: 523216  
PO#: UNJ-02446

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 #: 14106-2  
CAS #: 120-12-7  
MF: C14H10

NAME: ANTHRACENE, 99.9%

SYNONYMS

ANTHRACEN (GERMAN) \* ANTHRACIN \* COAL TAR PITCH VOLATILES: ANTHRACENE  
(OSHA) \* GREEN OIL \* PARANAPHTHALENE \* TETRA OLIVE N2G \*

TOXICITY HAZARDS

RTECS NO: CA9350000

ANTHRACENE  
IRRITATION DATA

SKN-MUS 118 UG MLD

CALEDQ 4,333,78

TOXICITY DATA

IPR-MUS LD50: 430 MG/KG

PMRSDJ 1,682,81

REVIEWS, STANDARDS, AND REGULATIONS

IARC CANCER REVIEW: ANIMAL NO EVIDENCE IMEMDT 32,105,83

IARC CANCER REVIEW: GROUP 3 IMSUDL 7,56,87

OSHA PEL: 8H TWA 0.2 MG/M3 FEREAC 54,2923,89

OSHA PEL FINAL: 8H TWA 0.2 MG/M3 FEREAC 54,2923,89

EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-BALB/C-3T3; SHE-  
CLONAL ASSAY

EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-MOUSE EMBRYO

EPA GENETOX PROGRAM 1988, NEGATIVE: IN VITRO CYTOGENETICS-NONHUMAN; E

COLI POLA WITH S9

EPA GENETOX PROGRAM 1988, NEGATIVE: HISTIDINE REVERSION-AMES TEST; IN

VIVO SCE-NONHUMAN

EPA GENETOX PROGRAM 1988, NEGATIVE: SPERM MORPHOLOGY-MOUSE; IN VITRO

UDS-HUMAN FIBROBLAST

EPA GENETOX PROGRAM 1988, NEGATIVE: IN VITRO UDS IN RAT LIVER; S

CEREVISIAE-HOMOZYGOSIS

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: CARCINOGENICITY-MOUSE/RAT

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: CELL TRANSFORM.-RLV F344 RAT

EMBRYO

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: HOST-MEDIATED ASSAY;

MAMMALIAN MICRONUCLEUS

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: E COLI POLA WITHOUT S9; IN

VITRO SCE-NONHUMAN

EPA TSCA CHEMICAL INVENTORY, 1986

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1989

NIOSH ANALYTICAL METHODS: SEE POLYNUCLEAR AROMATIC HYDROCARBONS (HPLC)

, 5506; (GC), 5515

OSHA ANALYTICAL METHOD #ID-58

TARGET ORGAN DATA

TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)

TUMORIGENIC (TUMORS AT SITE OF APPLICATION)

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

CONTINUED ON NEXT PAGE

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CAS #: 120-12-7  
MF: C14H10

NAME: ANTHRACENE, 99.9%

----- HEALTH HAZARD DATA -----

ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.  
CAUSES EYE AND SKIN IRRITATION.  
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF  
WATER FOR AT LEAST 15 MINUTES.  
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS  
AMOUNTS OF WATER.  
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.

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

BOILING PT: 340 C  
MELTING PT: 216 C TO 218 C  
VAPOR DENSITY: 5.15  
VAPOR PRESSURE: 1 MM @ 145 C

APPEARANCE AND ODOR  
WHITE FLAKES

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

AUTOIGNITION TEMPERATURE: 1004 F  
LOWER EXPLOSION LEVEL: .6%

EXTINGUISHING MEDIA

WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER 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.

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



INCOMPATIBILITIES

STRONG OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE

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

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED  
WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY

CONTINUED ON NEXT PAGE

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SPILL OR LEAK PROCEDURES

RUBBER GLOVES.  
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.  
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, AND LOCAL LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

CHEMICAL SAFETY GOGGLES.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
SAFETY SHOWER AND EYE BATH.  
MECHANICAL EXHAUST REQUIRED.  
DO NOT BREATHE DUST.  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
WASH THOROUGHLY AFTER HANDLING.  
IRRITANT.  
KEEP TIGHTLY CLOSED.  
STORE IN A COOL DRY PLACE.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

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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