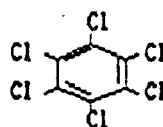


MATERIAL SAFETY DATA SHEET

Sigma-Aldrich Corporation
1001 West Saint Paul Ave, Milwaukee, WI 53233 USA

Version January 1992

	Sigma	Aldrich
For Emergency Contact USA/Canada	800-325-5832	800-231-8327
Outside USA/Canada	314-771-5765	414-273-3850



17,105-0

----- IDENTIFICATION -----

PRODUCT #: 17105-0

NAME: HEXACHLOROGENE, 99%

CAS #: 118-74-1

MF: C6CL6

SYNONYMS

AMATIN * ANTICARIE * BUNT-CURE * BUNT-NO-MORE * CEKU C.B. * CO-OP
HEXA * ESACLOROBENZENE (ITALIAN) * GRANOX NM * HCB * HEXA C.B. *
HEXACHLORBENZOL (GERMAN) * HEXACHLOROBENZENE * HEXACHLOROBENZENE (DOT)
* JULIN'S CARBON CHLORIDE * NO BUNT * NO BUNT 40 * NO BUNT 80 * NO
BUNT LIQUID * PENTACHLOROPHENYL CHLORIDE * PERCHLOROBENZENE * PHENYL
PERCHLORYL * SANOCIDE * SMUT-GO * RCRA WASTE NUMBER U127 *
SAATBEIZFUNGIZID (GERMAN) * SANOCID * SNIECIOTOX * UN 2729 (DOT) *

----- TOXICITY HAZARDS -----

RTECS NO: DA2975000

BENZENE, HEXACHLORO-

TOXICITY DATA

UNR-MAN LDLO:220 MG/KG

85DCAI 2,73,70

ORL-RAT LD50:10 GM/KG

FMCHA2 -,C156,89

IHL-RAT LC50:3600 MG/M3

85GMAT -,72,82

ORL-MUS LD50:4 GM/KG

85GMAT -,72,82

IHL-MUS LC50:4 GM/M3

85GMAT -,72,82

SCU-MUS LD50:>10 GM/KG

SRTCAC 36(1-4),10,89

ORL-CAT LD50:1700 MG/KG
IHL-CAT LC50:1600 MG/M3
ORL-RBT LD50:2600 MG/KG
IHL-RBT LC50:1800 MG/M3
ORL-GPG LD50:>3 GM/KG
ORL-MAM LD50:1047 MG/KG

85GMAT -,72,82
85GMAT -,72,82
85GMAT -,72,82
85GMAT -,72,82
PEMNDP 8,459,87
NTIS** PB288-416

REVIEWS, STANDARDS, AND REGULATIONS

IARC CANCER REVIEW:ANIMAL SUFFICIENT EVIDENCE IMEMDT 20,155,79
IARC CANCER REVIEW:HUMAN INADEQUATE EVIDENCE IMSUDL 7,219,87
IARC CANCER REVIEW:GROUP 2B IMSUDL 7,219,87
NOES 1983: HZD A1753000; TNF 2; NIS 10; NOS 12; TNE 1038; TFE 26
EPA GENETOX PROGRAM 1988, POSITIVE: CARCINOGENICITY-MOUSE/RAT
EPA GENETOX PROGRAM 1988, NEGATIVE: RODENT DOMINANT LETHAL
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
ON EPA IRIS DATABASE
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, MARCH 1991
NTP FIFTH ANNUAL REPORT ON CARCINOGENS, 1989 : ANTICIPATED TO BE
CARCINOGEN

TARGET ORGAN DATA

BEHAVIORAL (SOMNOLENCE)
LIVER (TUMORS)
ENDOCRINE (THYROID TUMORS)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CRANIOFACIAL)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)
SPECIFIC DEVELOPMENTAL ABNORMALITIES (UROGENITAL SYSTEM)
EFFECTS ON NEWBORN (LIVE BIRTH INDEX)
EFFECTS ON NEWBORN (VIABILITY INDEX)
EFFECTS ON NEWBORN (WEANING OR LACTATION INDEX)
EFFECTS ON NEWBORN (GROWTH STATISTICS)
EFFECTS ON NEWBORN (BIOCHEMICAL AND METABOLIC)
TUMORIGENIC (CARCINOGENIC BY RTECS CRITERIA)
TUMORIGENIC (NEOPLASTIC BY RTECS CRITERIA)
BIOCHEMICAL EFFECTS (PORPHYRIN INCLUDING BILE PIGMENTS)
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.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
CAUSES PHOTSENSITIVITY. EXPOSURE TO LIGHT CAN RESULT IN ALLERGIC
REACTIONS RESULTING IN DERMATOLOGIC LEISONS, WHICH CAN VARY FROM
SUNBURNLIKE RESPONSES TO EDEMATOUS, VESICULATED LESIONS OR BULLAE.

CHRONIC EFFECTS

CARCINOGEN.
MAY ALTER GENETIC MATERIAL.
TARGET ORGAN(S):
LIVER

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.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

CALL A PHYSICIAN.
DISCARD CONTAMINATED CLOTHING AND SHOES.

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

BOILING PT: 323 C TO 326 C
MELTING PT: 227 C TO 229 C

AP APARANCE AND ODOR
WHITE POWDER

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

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.

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

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF:

CARBON MONOXIDE, CARBON DIOXIDE

HYDROGEN CHLORIDE 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.

WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

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

W. E 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 ---

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

SAFETY SHOWER AND EYE BATH.

USE ONLY IN A CHEMICAL FUME HOOD.

DO NOT BREATHE DUST.

AVOID ALL CONTACT.

WASH THOROUGHLY AFTER HANDLING.

CARCINOGEN.

IRRITANT.

PHOTOSENSITIZER.

MUTAGEN.

HARMFUL SOLID.

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. SIGMA 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