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BIOCHEMICALS AND DIAGNOSTIC REAGENTS

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800 W MAIN ST
WHITEWATER WI 53190-1705

DATE: 06/17/93
CUST#: 2-097-94816
PO#: Q.E. 1801

MATERIAL SAFETY DATA SHEET PAGE 1

IDENTIFICATION

PRODUCT #: P3750
CAS #: 569-61-9
MF: C19H17N3
NAME: PARAROSANILINE CHLORIDE

SYNONYMS

BASIC PARAFUCHSINE * CALCOZINE MAGENTA N * CERVEN ZASADITA 9 (CZECH) *
C.I. 42500 * C.I. BASIC RED 9, MONOHYDROCHLORIDE * P-FUCHSIN *
FUCHSINE DR-001 * FUCHSINE SPC * FUCHSIN SP * 4,4'-((4-IMINO-2,5-
CYCLOHEXADIEN-1-YLIDENE)METHYLENE)DIANILINE MONOHYDROCHLORIDE * NCI-
C54739 * PARAFUCHSIN (GERMAN) * PARAFUCHSINE * PARA-MAGENTA *
PARAROSANILINE * PARAROSANILINE CHLORIDE * PARAROSANILINE
HYDROCHLORIDE * P-ROSANILINE HCL * SCHULTZ-TAB. NO. 779 (GERMAN) * 4,
4'-((4-AMINOTRIPHENYLMETHAN-HYDROCHLORID (GERMAN) *

TOXICITY HAZARDS

RCS #: CX9850100
BENZENAMINE, 4-((4-AMINOPHENYL)(4-IMINO-2,5-CYCLOHEXADIEN-1-YLIDENE)
METHYL), MONOHYDROCHLORIDE

TOXICITY DATA

ORL-MUS LD50: 5 GM/KG
FAZMAE 17,108,73

REVIEWS, STANDARDS, AND REGULATIONS

IARC CANCER REVIEW: ANIMAL INADEQUATE EVIDENCE IMEMDT 4,57,74
IARC CANCER REVIEW: HUMAN INADEQUATE EVIDENCE IMEMDT 4,57,74
IARC CANCER REVIEW: GROUP 3 IMSUDL 7,238,87
NDHS 1974: HZD M1440; NIS 4; TNE 148; NOS 6; TNE 494
NJES 1983: HZD M1440; NIS 4; TNE 165; NOS 6; TNE 907; TFE 733
EPA GENETOX PROGRAM 1988, POSITIVE: CELL TRANSFORM.-RLV F344 RAT
EMBRYO
EPA GENETOX PROGRAM 1988, POSITIVE: E COLI POLA WITHOUT S9
EPA GENETOX PROGRAM 1988, POSITIVE/DOSE RESPONSE: CELL TRANSFORM.-
BALB/C-3T3
EPA GENETOX PROGRAM 1988, POSITIVE/LIMITED: CARCINOGENICITY-MOUSE/RAT
EPA GENETOX PROGRAM 1988, NEGATIVE: HOST-MEDIATED ASSAY; HISTIDINE
REVERSION-AMES TEST
EPA GENETOX PROGRAM 1988, NEGATIVE: S CEREVISIAE-HOMOZYGOSIS
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: SHE-CLONAL ASSAY
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993
NTP CARCINOGENESIS STUDIES (FEED); CLEAR EVIDENCE: MOUSE, RAT NTPTR* NTP-
TR-285,86
NTP 7TH ANNUAL REPORT ON CARCINOGENS, 1992 : ANTICIPATED TO BE

CONTINUED ON NEXT PAGE

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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 PAGE 2

CUST#: 2-097-94816
PO#: Q.E. 1801

PRODUCT #: P3750
CAS #: 569-61-9
MF: C19H17N3

NAME: PARAROSANILINE CHLORIDE

TOXICITY HAZARDS

CARCINOGEN

TARGET ORGAN DATA

LIVER (TUMORS)
ENDOCRINE (ADRENAL CORTEX TUMORS)
ENDOCRINE (THYROID TUMORS)
TUMORIGENIC (CARCINOGENIC BY RTECS CRITERIA)
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.

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.

CHRONIC EFFECTS

CARCINOGEN.
MAY ALTER GENETIC MATERIAL.
TARGET ORGAN(S):
THYROID
PITUITARY
THIRTEEN WEEK STUDIES IN RATS IDENTIFIED THE THYROID AND PITUITARY
GLAND AS TARGET SITES. RATS OF BOTH SEXES SHOWED SUBCUTANEOUS
FIBROMAS, THYROID GLAND FOLLICULAR CELL ADENOMAS AND CARCINOMAS, AND
ZYMAL GLAND CARCINOMAS. MALE RATS SHOWED SQUAMOUS CELL CARCINOMAS,
TRICHOPITHELIOMAS AND SEBACEOUS ADENOMAS OF THE SKIN. HEPATOCELLULAR
CARCINOMAS APPEARED IN MALE RATS AND BOTH SEXES OF MICE. ADRENAL
GLAND PHEOCHROMOCYTOMAS OR MALIGNANT PHEOCHROMOCYTOMAS AND
HEMATOPOIETIC SYSTEM TUMORS OCCURRED IN FEMALE MICE. INCREASED
INCIDENCES OF MAMMARY GLAND TUMORS OCCURRED IN FEMALE RATS.
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 OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED

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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 PAGE 3

CUST#: 2-097-94816
PO#: O.E. 1801

PRODUCT #: P3750
CAS #: 569-61-9
MF: C19H17N3

NAME: PARAROSANILINE CHLORIDE

--- HEALTH HAZARD DATA ---

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 ---

MELTING POINT: 268 C TO 270 C (DEC)



APPEARANCE AND ODOR
DARK-GREEN CRYSTALLINE 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
NITROGEN OXIDES

--- SPILL OR LEAK PROCEDURES ---

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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

PAGE 4

CUST#: 2-097-94816
PO#: Q.E. 1801

PRODUCT #: P3750
CAS #: 569-61-9
MF: C19H17N3

NAME: PARAROSANILINE CHLORIDE

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.

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 ENVIRONMENTAL REGULATIONS.

--- 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.

AVOID PROLONGED OR REPEATED EXPOSURE.

WASH THOROUGHLY AFTER HANDLING.

CARCINOGEN.

IRRITANT.

MUTAGEN.

HARMFUL SOLID.

KEEP TIGHTLY CLOSED.

STORE IN A COOL DRY PLACE.

LABEL PRECAUTIONARY STATEMENTS

TOXIC

MAY CAUSE CANCER.

MAY CAUSE HERITABLE GENETIC DAMAGE.

HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

TARGET ORGAN(S):

THYROID

PITUITARY

DO NOT BREATHE DUST.

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE

PROTECTION.

IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE

POSSIBLE).

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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

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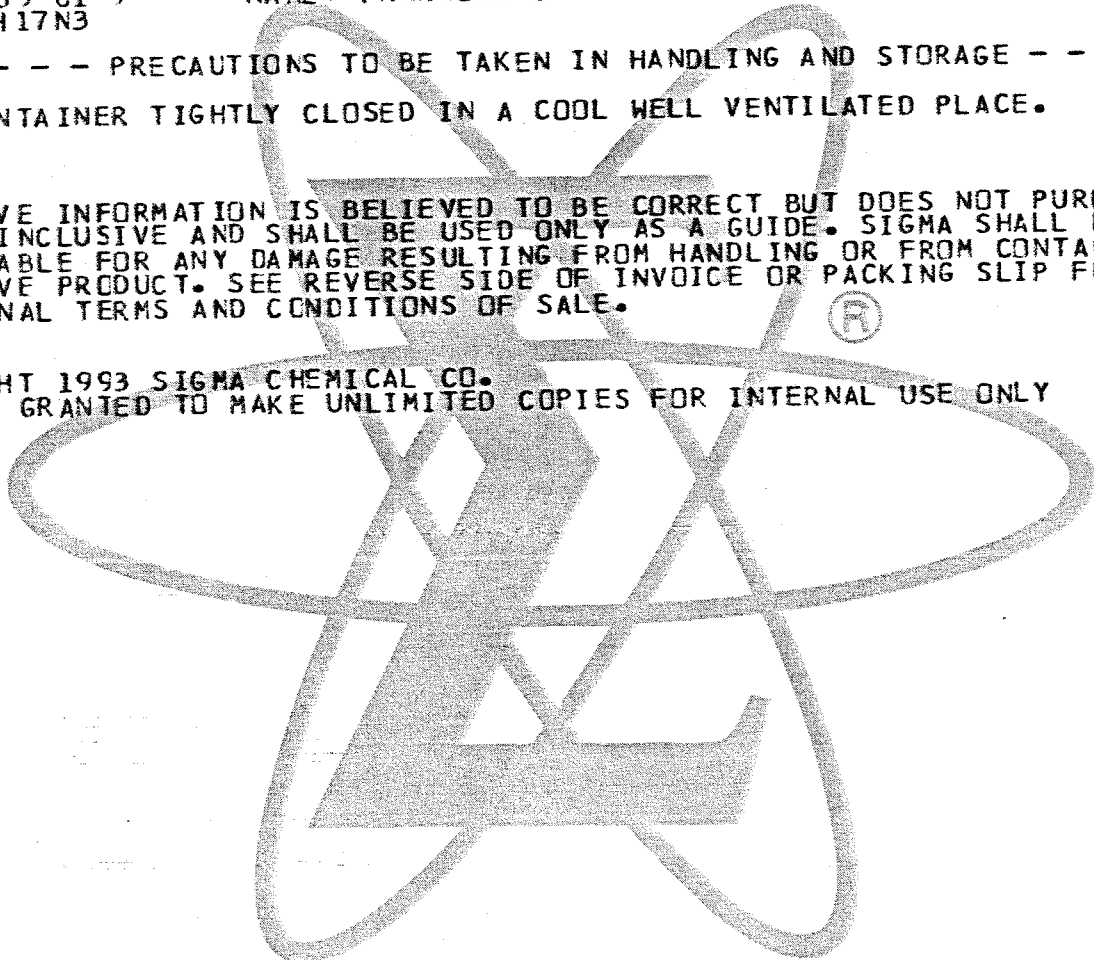
PRODUCT #: P3750
CAS #: 569-61-9
MF: C19H17N3

NAME: PARAROSANILINE CHLORIDE

----- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE -----
KEEP CONTAINER TIGHTLY CLOSED IN A COOL WELL VENTILATED PLACE.

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