MATERIAL SAFETY DATA SHEET

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

SYNONYMS
BASIC PARAFLUSHINE * CALCOZONE MAGENTA N * CERVEN ZASADITA 9 (CZECH) *
C.I. 42500 * C.I. BASIC RED 9, MONOHYDROCHLORIDE * P-FLUSHINE *
FLUSHINE DR-001 * FLUSHINE SP * FUCHSIN SP * 4,4*-((4-IMINO-2,5-
CYCLOHEXADIEN-1-YLIDENE)METHYLENE)DIANILINE MONOHYDROCHLORIDE * NCI-
C54739 * PARAROSANILINE (GERMAN) * PARAROSAFLUSHINE * PARA-MAGENTA *
PARAROSANILINE CHLORIDE * PARAROSANILINE HYDROCHLORIDE * P-ROSANILINE HCL *
SCHULTZ-Tab. No. 779 (GERMAN) * 4,4*-TRIAMINOTRIPHENYL METHAN-HYDROCHLORIDE (GERMAN) *

--- TOXICITY HAZARDS ---

R-76 CS #: CX9850100
BENZENE, 4-((4-AMINO-PHENYL)(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 IMMUD 4,57,74
IARC CANCER REVIEW: HUMAN INADEQUATE EVIDENCE IMMUD 4,57,74
IARC CANCER REVIEW: GROUP 3 INSUDL 7,238,87
NIOSH 1974: H2O M1400; AIS 4; TNE 1483; NOS 6; TNE 494
NIJES 1983: H2O M1400; AIS 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/DOSAGE RESPONSE: CELL TRANSFORM-
BALB/C-3T3
EPA GENETOX PROGRAM 1988, POSITIVE/LIMITED: CARCINOGENICITY-MOUSE/RAT
EPA GENETOX PROGRAM 1988, NEGATIVE: HOST-MEDITATED ASSAY; HISTIDINE
REVERSION-AMES TEST
EPA GENETOX PROGRAM 1988, NEGATIVE: S CEREOVIAE-HOMODYSOGIS
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: SHE-CLONAL ASSAY
EPA TSCA CHEMICAL INVENTORY, JUNE 1990
EPA TSCA TEST SUBMISSION (TS CATS) DATA BASE, JANUARY 1993
NTP CARCINOGENESIS STUDIES (FEED); CLEAR EVIDENCE: MOUSE, RAT NTTPR* NTP-
TR-285, 86
NTP 7TH ANNUAL REPORT ON CARCINOGENS, 1992: ANTICIPATED TO BE

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--- TOXICITY HAZARDS ---

CARCINOGEN

TARGET ORGAN DATA
LIVER (TUMORS)
ENDOCRINE (ADRENAL CORTEX TUMORS)
ENDOCRINE (THYROID TUMORS)
TUMORIGENIC (CARCINOGENIC BY RTECS CRITERIA)
TUMORIGENIC (EQUIVALENT 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 ---

AFFECTEFFECTS
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, TRICHEREPITHELIALomas AND SEBACEOUS ADENOMAS OF THE SKIN. HEPATOCELLULAR CARCINOMAS APPEARED IN MALE RATS AND BOTH SEXES OF MICE. ADRENAL GLAND PHOLEOHROMOCYTOMAS OR MALIGNANT PHOLEOHROMOCYTOMAS 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 WITHcopious
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED

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MATERIAL SAFETY DATA SHEET

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

NAME: PARA ROSANILINE 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 HEREDITARY 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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MATERIAL SAFETY DATA SHEET

PRODUCT #: P2750
CAS #: 566-61-9
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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