MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - - - - CHEMICAL IDENTIFICATION- - - - - - - - - -
CATALOG #:            P9471
NAME:                 PHENOLPHTHALEIN USP

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -
CAS #:    77-09-8
MF: C20H14O4
EC NO: 201-004-7
SYNONYMS
AGORAL * 3,3-BIS(4-HYDROXYPHENYL)-1-(3H)-ISOBENZOFURANONE * 3,3-BIS(P-
HYDROXYPHENYL)PHTHALIDE * COLAX * CORRECTOL * DIALOSE * ALPHA-DI(P-
HYDROXYPHENYL)PHTHALIDE * DIHYDROXYPHTHALOPHENONE * DOXIDAN *
EUCHESSINA * EVAC-Q-KIT * EVAC-Q-KWIK * EVAC-U-GEN * EVAC-V-LAX * EX-
LAX * FEEN-A-MINT GUM * FEMILAX * FENOLTEALEIN (CZECH) * ALPHA-(P-
HYDROXYPHENYL)-ALPHA-(4-OXO-2,5-CYCLOHEXADIEN-1-YLIDENE)-O-TOLUIC
ACID * 1(3H)-ISOBENZOFURANONE, 3,3-BIS(4-HYDROXYPHENYL)- * KOPROL *
LAXOGEN * LAXCAPS * LAX-PILLS * LILO * MEDILAX * MODANE * NCI-C55798 *
PHENOLAX * PHTHALIDE 3,3,-BIS(P-HYDROXYPHENYL)- * PHTHALIMETTEN *
PHTHALIN * PRULET * PURGA * PURGEN * PURGOFEN * SPULMAKO-LAX *
TRILAX *

SECTION 3. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - - -
LABEL PRECAUTIONARY STATEMENTS
HARMFUL
POSSIBLE RISK OF IRREVERSIBLE EFFECTS.
POSSIBLE CARCINOGEN (US)
POSSIBLE SENSITIZER.
TARGET ORGAN(S):
KIDNEYS
ADRENAL MEDULLA
WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - - - - - - FIRST-AID MEASURES- - - - - - - - - -
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,
CALL A PHYSICIAN.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
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 RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY
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.

SECTION 7. - - - - - - - - - - HANDLING AND STORAGE- - - - - - - - - -
REFER TO SECTION 8.
SECTION 8. - EXPOSURE CONTROLS/PERSONAL PROTECTION - 

SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
AVOID INHALATION.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
NIOSH/MSHA-APPROVED RESPIRATOR.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
CHEMICAL SAFETY GOGGLES.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.
WASH THOROUGHLY AFTER HANDLING.

SECTION 9. - PHYSICAL AND CHEMICAL PROPERTIES - 

APPEARANCE AND ODOR
SOLID.

PHYSICAL PROPERTIES
MELTING POINT: 261 °C

SECTION 10. - STABILITY AND REACTIVITY - 

STABILITY
STABLE.

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - TOXICOLOGICAL INFORMATION - 

ACUTE EFFECTS
MAY CAUSE SKIN IRRITATION.
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
MAY CAUSE EYE IRRITATION.
MAY BE HARMFUL IF INHALED.
MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
MAY BE HARMFUL IF SWALLOWED.
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

CHRONIC EFFECTS
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP or EPA classification.
TARGET ORGAN(S):
ADRENAL MEDULLA
KIDNEYS
THYMUS
BOWEL

RTECS #: SM8380000
PHENOLPHTHALEIN

TARGET ORGAN DATA
GASTROINTESTINAL (GASTRITIS)
GASTROINTESTINAL (NAUSEA OR VOMITING)
KIDNEY, URETER, BLADDER (OTHER CHANGES IN URINE COMPOSITION)
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 SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - REGULATORY INFORMATION - 

EUROPEAN INFORMATION
HARMFUL
R 40
POSSIBLE RISK OF IRREVERSIBLE EFFECTS.
S 36
WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

IARC CANCER REVIEW: ANIMAL SUFFICIENT EVIDENCE IEMMDT 76,387,2000
IARC CANCER REVIEW: HUMAN INADEQUATE EVIDENCE IEMMDT 76,387,2000
IARC CANCER REVIEW: GROUP 2B IEMMDT 76,387,2000

NOHS 1974: HZD T0011; NIS 1; TNF 8; NOS 1; TNE 31
NOHS 1974: HZD 56240; NIS 102; TNF 6160; NOS 43; TNE 43092
NOES 1983: HZD X9187; NIS 3; TNF 117; NOS 6; TNE 1946; TFE 1408
NOES 1983: HZD 56240; NIS 89; TNF 6900; NOS 57; TNE 73297; TFE 18309

EPA GENETOX PROGRAM 1988, NEGATIVE: B SUBTILIS REC ASSAY
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: B SUBTILIS REC ASSAY
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001
NTP CARCINOGENESIS STUDIES (FEED); CLEAR EVIDENCE: MOUSE
NTPTR* NTP-TR-465,1996
NTP CARCINOGENESIS STUDIES (FEED); SOME EVIDENCE: RAT
NTPTR* NTP-TR-465,1996
NTP 9TH REPORT ON CARCINOGENS, 2000: REASONABLY ANTICIPATED TO BE HUMAN CARCINOGEN
NTP CARCINOGENESIS STUDIES; ON TEST (PRECHRONIC STUDIES), OCTOBER 2000

SECTION 16. OTHER INFORMATION

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