MATERIAL SAFETY DATA SHEET

SECTION 1. - - - - - - - - - CHEMICAL IDENTIFICATION- - - - - - - - - -
CATALOG #: T0638
NAME: TOLUIDINE RED

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -
CAS #: 2425-85-6
MF: C17H13N3O2
EC NO: 219-372-2
SYNONYMS
ACCOSPERSE TOLUIDINE RED XL * ADC TOLUIDINE RED B * ATLASOL SPIRIT
RED 3 * CALCITONE TOLUIDINE RED YP * CARNELO HELIO RED * CERVEN
PIGMENT 3 (CZECH) * CHROMATEX RED J * C.I. 12120 * C.I. PIGMENT RED 3 *
C.P. TOLUIDINE TONER A-2989 * C.P. TOLUIDINE TONER A-2990 * C.P.
TOLUIDINE TONER DARK RS-3340 * C.P. TOLUIDINE TONER DEEP X-1865 * C.P.
TOLUIDINE TONER LIGHT RS-3140 * C.P. TOLUIDINE TONER RT-6101 * C.P.
TOLUIDINE TONER RT-6104 * DAINICHI PERMANENT RED 4 R * D AND C RED NO.
35 * DEEP FASTONA RED * DUPLEX TOLUIDINE RED L 20-3140 * ELJON FAST
SCARLET PV EXTRA * ELJON FAST SCARLET RN * ENIALIT LIGHT RED RL *
FASTONA RED B * FASTONA SCARLET RL * FASTONA SCARLET YS * FAST RED A
(PIGMENT) * FAST RED AB * FAST RED J * FAST RED JE * FAST RED R *
GRAPHTOL RED A-4RL * HANSA RED B * HANSA RED G * HANSA SCARLET RB *
HANSA SCARLET RN * HANSA SCARLET RNC * HELIO FAST RED BN * HELIO FAST
RED RL * HELIO FAST RED RN * HELIO RED RL * HELIO RED TONER *
HISPALIT FAST SCARLET RN * INDEPENDENCE RED * IRGALITE FAST RED P4R *
IRGALITE FAST SCARLET RND * IRGALITE RED PV2 * IRGALITE RED RNPX *
IRGALITE SCARLET RB * ISOL FAST RED HB * ISOL FAST RED RNB * ISOL
FAST RED RN2B * ISOL FAST RED RNN * ISOL FAST RED RN2G * ISOL
TOLUIDINE RED HB * ISOL TOLUIDINE RED RN9 * ISOL TOLUIDINE RED RN2B *
ISOL TOLUIDINE RED RNN * ISOL TOLUIDINE RED RN2G * KROMON HELIO FAST
RED * KROMON HELIO FAST RED YS * LAKE RED 4R * LAKE RED 4RI * LITHOL
FAST SCARLET RN * LUTETIA FAST SCARLET 3R * LUTETIA FAST SCARLET RF *
LUTETIA FAST SCARLET RJN * 1-((4-METHYL-2-NITROPHENYL)azo)-2-
NAPHTHALENOL * MONOLITE FAST SCARLET CA * MONOLITE FAST SCARLET GSA *
MONOLITE FAST SCARLET RB * MONOLITE FAST SCARLET RBA * MONOLITE FAST
SCARLET RN * MONOLITE FAST SCARLET RNA * MONOLITE FAST SCARLET RNV *
MONOLITE FAST SCARLET RT * NCI-C60366 * 1-((2-NITRO-4-METHYLPHENYL))
TjETBT/PjCourier

SCARLET * ORALITH RED P4R * PERMANENT RED 4R * PIGMENT RED 3 *
PIGMENT RED RL * PIGMENT RUBY * PIGMENT SCARLET * PIGMENT SCARLET
(RUSSIAN) * PIGMENT SCARLET B * PIGMENT SCARLET N * PIGMENT SCARLET R *
POLYMO RED FGN * RECOLITE FAST RED RBL * RECOLITE FAST RED RL *
RECOLITE FAST RED RYL * SANYO SCARLET PURE * SANYO SCARLET PURE NO.
1000 * SCARLET PIGMENT RN * SEGNALE LIGHT RED B * SEGNALE LIGHT RED
2B * SEGNALE LIGHT RED BR * SEGNALE LIGHT RED C4R * SEGNALE LIGHT RED
RL * SIEGLE RED 1 * SIEGLE RED B * SIEGLE RED BB * SILOGOMMA RED RLL *
SILOSOL RED RBN * SILOSOL RED RN * SILOTSOL RED BRLL * SILOTSOL RED
RLL * SYMULER FAST SCARLET 4R * SYTON FAST SCARLET RB * SYTON FAST
SCARLET RD * SYTON FAST SCARLET RN * TERTROPIGMENT RED HAB *
TERTROPIGMENT SCARLET LRN * TOLUIDINE RED * TOLUIDINE RED 10451 *
TOLUIDINE RED 3B * TOLUIDINE RED BFBB * TOLUIDINE RED BFEG * TOLUIDINE
RED D 28-3930 * TOLUIDINE RED LIGHT * TOLUIDINE RED M 20-3785 *
TOLUIDINE RED R * TOLUIDINE RED 4R * TOLUIDINE RED RT-115 * TOLUIDINE
RED TONER * TOLUIDINE RED XL 20-3050 * TOLUIDINE TONER * TOLUIDINE

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Sigma Chemical Co.
P.O. Box 14508
St. Louis, MO 63178 USA
Phone: 314-771-5765
TONER DARK 5040 * TOLUIDINE TONER 4R X-2700 * TOLUIDINE TONER HR X-2741 * TOLUIDINE TONER KEEP HR X-2742 * TOLUIDINE TONER L 20-3300 * TOLUIDINE TONER RT-252 * VERSAL SCARLET PRNL * VERSAL SCARLET RNL * VULCAFOR SCARLET A *

SECTION 3. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - - -

LABEL PRECAUTIONARY STATEMENTS
HARMFUL
LIMITED EVIDENCE OF CARCINOGENIC EFFECT.
POSSIBLE CARCINOGEN.
TARGET ORGAN(S):
BONE MARROW
KIDNEYS
DO NOT BREATHE DUST.
WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - - - - - - FIRST-AID MEASURES- - - - - - - - - - -
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.

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- - - - - - - - - -
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, 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- - - - - -
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.
POSSIBLE CARCINOGEN.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - -
APPEARANCE AND ODOR
SOLID.

PHYSICAL PROPERTIES
MELTING POINT: 270 C TO 272 C

SECTION 10. - - - - - - - - -STABILITY AND REACTIVITY - - - - - - - - -
STABILITY
STABLE.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, AND NITROGEN OXIDES.
HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - - - - - - - - - TOXICOLOGICAL INFORMATION - - - - - - - -

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MAY CAUSE IRRITATION.
PROLONGED OR REPEATED EXPOSURE MAY CAUSE ALLERGIC REACTIONS IN CERTAIN SENSITIVE INDIVIDUALS.

CHRONIC EFFECTS
POSSIBLE CARCINOGEN.
TARGET ORGAN(S):
BONE MARROW
KIDNEYS
LIVER
SPLEEN
THYROID
ADRENAL MEDULLA

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: QK4247000
2-NAPHTHALENOL, 1-((4-METHYL-2-NITROPHENYL)AZO)-
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 - - - - - - - -
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
LIMITED EVIDENCE OF CARCINOGENIC EFFECT.
S 22
DO NOT BREATHE DUST.
S 36
WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS
OEL=MAK
IARC CANCER REVIEW:ANIMAL LIMITED EVIDENCE IMEMDT 57,259,1993
IARC CANCER REVIEW:HUMAN INADEQUATE EVIDENCE IMEMDT 57,259,1993
IARC CANCER REVIEW:GROUP 3 IMEMDT 57,259,1993
NOHS 1974: HZD M2109; NIS 78; TNF 6944; NOS 56; TNE 47730
NOES 1983: HZD M2109; NIS 57; TNF 4689; NOS 53; TNE 51931; TFE 11615
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001
NTP CARCINOGENESIS STUDIES (FEED); SOME EVIDENCE:MOUSE,RAT
NTPTR* NTP-TR-407,1992

SECTION 16. - - - - - - - - - OTHER INFORMATION- - - - - - - - - - -
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, FLUKA 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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