ATTN: SAFETY DIRECTOR
UNIV OF WISCONSIN - WHITewater
PURCHasing OFFICE
800 W MAIN ST
WHITewater WI 53190-1705

EMERGENCY PHONE 1-314-771-5765
DATE 03/02/99
CUST#: 0-495-04629
PO#: CC/BRONSON

MATERIAL SAFETY DATA SHEET

SECTION 1. --- --- --- --- CHEMICAL IDENTIFICATION--- --- --- --- ---

CATALOG #: E1510
NAME: ETHIDIUM BROMIDE AQUEOUS SOLUTION 10 MG PER ML

SECTION 2. --- --- --- COMPOSITION/INFORMATION ON INGREDIENTS --- --- --- ---

CAS #: 1239-45-8
EC NO: 214-984-6

SYNONYMS
2,7-DIAMINO-10-ETHYL-9-PHENYLPHENANTHRIDINUM BROMIDE * 3,8-DIAMINO-5-
ETHYL-6-PHENYLPHENANTHRIDINUM BROMIDE * 2,7-DIAMINO-9-PHENYL-10-
ETHYLPHENANTHRIDINUM BROMIDE * 2,7-DIAMINO-9-PHENYLPHENANTHRIDINE
ETHOBROMIDE * DROMILAC * ETHIDIUM BROMIDE * HOMIDIUM BROMIDE * RD
1572 *

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

LABEL PRECAUTIONARY STATEMENTS
TOXIC
MAY CAUSE HERITABLE GENETIC DAMAGE.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK MEDICAL ADVICE
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
DO NOT BREATHE SPRAY.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.

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

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
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.
IN CASE OF SKIN CONTACT, FLUSH WITH COPIous AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
SHOES. CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,
CALL A PHYSICIAN.

SECTION 5. --- --- --- --- FIRE FIGHTING MEASURES --- --- --- ---

EXTINGUISHING MEDIA
NONCOMBUSTIBLE.

CONTINUED ON NEXT PAGE

2630
SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

CATALOG #: E1510
NAME: ETHIDIUM BROMIDE AQUEOUS SOLUTION 10 MG PER ML

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

SECTION 6. ACCIDENTAL RELEASE MEASURES
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. 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. MECHANICAL EXHAUST REQUIRED. DO NOT BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WASH THOROUGHLY AFTER HANDLING. IRRITANT. MUTAGEN. KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE AND ODOR LIQUID.

PHYSICAL PROPERTIES
SOLUBILITY:
  WATER - SOLUBLE
  PYRIDINE: SOLUBLE
  METHANOL: SPARINGLY SOLUBLE

SECTION 10. STABILITY AND REACTIVITY
STABILITY STABLE.

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS TOXIC FUMES OF:

CONTINUED ON NEXT PAGE
CATALOG #:  E1510
NAME:  ETHIDIUM BROMIDE AQUEOUS SOLUTION 10 MG PER ML
CARBON MONOXIDE, CARBON DIOXIDE
NITROGEN OXIDES
HYDROGEN BROMIDE GAS

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11.  TOXICOLOGICAL INFORMATION

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

CHRONIC EFFECTS
MAY ALTER GENETIC MATERIAL.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #:  SF7950000
PHENANTHRIDINIUM, 3,8-DIAMINO-5-ETHYL-6-PHENYL-, BROMIDE

TOXICITY DATA
SCUS-MUS LD50: 110 MG/KG  ATMPA2 46,285,1952

TARGET ORGAN DATA
TUMORIGENIC (ACTIVE AS ANTI-CANCER AGENT)
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
TOXIC
R 46

CONTINUED ON NEXT PAGE
CATALOG #: EL510
NAME: ETHIDIUM BROMIDE AQUEOUS SOLUTION 10 MG PER ML

MAY CAUSE HERITABLE GENETIC DAMAGE.
R 36/37/38 Irritating to eyes, respiratory system and skin.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 23 Do not breathe spray.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

REVIEWS, STANDARDS, AND REGULATIONS
OEL=MAK
NOHS 1974: HZD A1168; NIS 1; TNF 17; NOS 1; TNE 34
NOES 1983: HZD A1168; NIS 1; TNF 7; NOS 3; TNE 21
EPA GENOTOX PROGRAM 1988, POSITIVE: IN VITRO MAMMALIAN NONHUMAN MICRONUCLEUS
EPA GENOTOX PROGRAM 1988, POSITIVE: E COLI POLA WITHOUT S9; HISTIDINE REVERSION-AMES TEST
EPA GENOTOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-SA7/SHE; SPERM MORPHOLOGY-MOUSE
EPA GENOTOX PROGRAM 1988, NEGATIVE: S CEREVISIAE GENE CONVERSION; S CEREVISIAE-HOMOZYGOSIS
EPA GENETOX PROGRAM 1988, NEGATIVE: S CEREVISIAE-REVERSION
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: CYTOGENETICS-MALE GERM CELL
EPA GENETOX PROGRAM 1988, POSITIVE: CHO GENE MUTATION
NTP CARCINOGENESIS STUDIES; SELECTED, NOVEMBER 1998

SECTION 16. - - - - - - - - - - OTHER INFORMATION - - - - - - - - - -

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2633