1



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

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	PAGE
SECTION 1	 · -
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-PHENYLPHENANTHRIDINIUM BROMIDE * 3,8-DIAMI ETHYL-6-PHENYLPHENANTHRIDINIUM BROMIDE * 2,7-DIAMINO-9-PHENYL-10- ETHYLPHENANTHRIDINIUM BROMIDE * 2,7-DIAMINO-9-PHENYLPHENANTHRIDIN ETHOBROMIDE * DROMILAC * ETHIDIUM BROMIDE * HOMIDIUM BROMIDE * RE 1572 *	NO-5-
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 CONSCICALL 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	

We are Committed to the Success of our Customers through Science, Technology and Service.

M as meses

GCIDEICA

2630

SIGMA

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

SAFETY DATA

MATERIAL

CUST#: 0-495-04629 PO#: CC/BRONSON

PAGE

2

SHEET

E1510 CATALOG #: ETHIDIUM BROMIDE AQUEOUS SOLUTION 10 MG NAME: 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, C 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. CHEMICAL-RESISTANT 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 - - -STABILITY AND REACTIVITY -SECTION 10. -STABILITY STABLE. INCOMPATIBILITIES STRONG OXIDIZING AGENTS HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS TOXIC FUMES OF:

CONTINUED ON NEXT PAGE



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

CUST#: 0-495-04629 PO#: CC/BRONSON

3

ма	TERIAL S	SAFETY	DATA SH	IEET P	AGE
CATALOG #: NAME:	E1510 ETHIDIUM PER ML	BROMIDE AQUE	COUS SOLUTION	1 10 MG	
CARBON MONOXIDE, NITROGEN OXIDES HYDROGEN BROMIDE	1				
HAZARDOUS POLYMERI WILL NOT OCCUR.	ZATION				
SECTION 11	TOXIO	COLOGICAL IN	FORMATION		
ACUTE EFFECTS MAY BE HARMFUL B CAUSES EYE AND S MATERIAL IS IRRI RESPIRATORY TRAC	TATING TO MUCO			PTION.	
CHRONIC EFFECTS MAY ALTER GENETI TO THE BEST OF C TOXICOLOGICAL PR	C MATERIAL. DUR KNOWLEDGE, ROPERTIES HAVE	THE CHEMICAL NOT BEEN THO	PHYSICAL ROUGHLY INVE	AND STIGATED.	
RTECS #: SF7950000 PHENANTHRIDINIUM	0 4, 3,8-DIAMINO-	5-ETHYL-6-PH	ENYL-, BROMI	DE	
TOXICITY DATA SCU-MUS LD50:110	MG/KG		ATMPA2 4	6,285,1952	
TARGET ORGAN DATA TUMORIGENIC (ACT ONLY SELECTED RE (RTECS) DATA IS COMPLETE INFORM	EGISTRY OF TOAT PRESENTED HERE		CHEMICAL SU ENTRY IN RT	BSTANCES ECS FOR	
SECTION 12	ECOL	OGICAL INFOR	MATION		
DATA NOT YET AV				:::	
SECTION 13		POSAL CONSIDE		m AND BUDN IN	λ
DISSOLVE OR MIX CHEMICAL INCINE OBSERVE ALL FED	ERAL, STATE AND	LOCAL ENVIE	COMMENTAL REC	JŪLATIONS.	A
SECTION 14	TF	RANSPORT INFO	RMATION		
CONTACT SIGMA C	HEMICAL COMPANY	FOR TRANSPO	ORTATION INFO)RMATION.	
SECTION 15	REGU	JLATORY INFO	RMATION		
EUROPEAN INFORMAT TOXIC R 46	ION	•			

We are Committed to the Success of our Customers through Science, Technology and Service.

CONTINUED ON NEXT PAGE

Riedel-de Haën

SUPELCO

2632

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

CUST#: 0-495-04629 PO#: CC/BRONSON

MATERIAL SAFETY DATA SHEET

4 PAGE

CATALOG #: NAME:

E1510 ETHIDIUM BROMIDE AOUEOUS 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, SIMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE). SEEK MEDICAL ADVICE

ĬN ČASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

DO NOT BREATHE SPRAY.
S 36/37/39
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

L OEL=MAK
NOHS 1974: HZD All68; NIS 1; TNF 17; NOS 1; TNE 34
NOES 1983: HZD All68; NIS 1; TNF 7; NOS 3; TNE 21
EPA GENETOX PROGRAM 1988, POSITIVE: IN VITRO MAMMALIAN NONHUMAN
MICRONUCLEUS
EPA GENETOX PROGRAM 1988, POSITIVE: E COLI POLA WITHOUT S9; HISTIDINE
REVERSION-AMES TEST
EPA GENETOX PROGRAM 1988, NEGATIVE: CELL TRANSFORM.-SA7/SHE; SPERM
MORPHOLOGY-MOUSE
EPA GENETOX 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

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

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 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.

COPYRIGHT 1998 SIGMA-ALDRICH CO. LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

MATERIAL WAS SHIPPED TO THIS ADDRESS:
UNIV OF WISCONSIN - WHITEWATER
GEORGE CLOKEY
317 UPHAM HALL
800 W MAIN ST WHITEWATER WI 53190