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**MATERIAL SAFETY DATA SHEET**

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

DERIVATIZATION SOLUTION CONTAINS:

0 - 1 MG 1-(2-METHOXYPHENYL)PIPERAZINE PER ML OF TOLUENE

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

TOLUENE; MF: C7H8; CAS #: 108-88-3

1-(2-METHOXYPHENYL) PIPERAZINE; MF: C11H16N2O; CAS #: 35386-24-4

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

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE

KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING.

TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

CALIF. PROP. 65 REPRODUCTIVE HAZARD.

TARGET ORGANS: LIVER, KIDNEYS, BRAIN, BLADDER.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY

WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.

KEEP TIGHTLY CLOSED.

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN  
WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

REMOVE 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.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

READILY ABSORBED THROUGH SKIN.

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

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

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.

SPECIAL FIRE-FIGHTING PROCEDURES

WEAR PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

DANGER: EXTREMELY FLAMMABLE

VAPOR MAY TRAVEL TO SOURCE OF IGNITION AND FLASH BACK.

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----

EVACUATE AREA.

SHUT OFF ALL SOURCES OF IGNITION.

COVER WITH ACTIVATED CARBON ABSORBENT, PICK UP, KEEP IN A CLOSED

CONTAINER, TRANSPORT OUTDOORS AND HOLD FOR WASTE 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/OSHA - APPROVED RESPIRATOR, CHEMICAL RESISTANT  
GLOVES AND SAFETY GOGGLES.

SAFETY SHOWER AND EYE BATH. MECHANICAL EXHAUST REQUIRED.

DO NOT BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE. READILY ABSORBED THROUGH SKIN.

WASH THOROUGHLY AFTER HANDLING.

TOXIC. SEVERE IRRITANT.

KEEP TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

SECTION 9. -----PHYSICAL AND CHEMICAL PROPERTIES-----

CLEAR, COLORLESS LIQUID

BOILING POINT: 110.6 C

MELTING POINT: - 93 C

FLASHPOINT 4 C (40 F)

EXPLOSION LIMITS IN AIR: UPPER 7%, LOWER 1%

AUTOIGNITION TEMPERATURE: 535 C (997 F)

SECTION 10. -----STABILITY AND REACTIVITY-----

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS, STRONG ACIDS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

TOXIC FUMES OF: CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES

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

ACUTE EFFECTS

HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.

CAUSES SEVERE IRRITATION.

HIGH CONCENTRATIONS ARE EXTREMELY DESTRUCTIVE TO TISSUES OF THE MUCOUS  
MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING,  
LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

EXPOSURE CAN CAUSE:

LUNG IRRITATION, CHEST PAIN AND EDEMA WHICH MAY BE FATAL.

CHRONIC EFFECTS

MAY CAUSE NERVOUS SYSTEM DISTURBANCES.

TARGET ORGANS: BRAIN, LIVER, KIDNEYS, BLADDER.

ADDITIONAL INFORMATION

EXPOSURE TO AND/OR CONSUMPTION OF ALCOHOL MAY INCREASE TOXIC EFFECTS.

SECTION 12. -----ECOLOGICAL CONSIDERATIONS-----

DATA NOT YET AVAILABLE

SECTION 13. -----DISPOSABLE CONSIDERATION-----

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A  
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATION.

SECTION 14. -----TRANSPORT INFORMATION-----

CONTACT COMPANY FOR TRANSPORTATION INFORMATION

SECTION 15. -----REGULATORY INFORMATION-----

DATA NOT AVAILABLE FOR 1-(2-METHOXYPHENYL)PIPERAZINE

TOLUENE: OSHA PEL 100 PPM, OSHA STEL 150 PPM

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO  
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TEL. (508)256-5450 TOLL FREE (800)346-8253 FAX (508)256-8015

The Cassette of Catalog # LPL503712-FG  
# LPL503736-FG  
contains less than 0.01 mg of the substance listed in this MSDS

## MATERIAL SAFETY DATA SHEET

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

NAME: 9-(METHYLAMINOMETHYL)ANTHRACENE, 99%

### SECTION 2. -----COMPOSITION/INFORMATION OF INGREDIENTS-----

CAS #: 73356-19-1  
MF: C16H15N

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

#### LABEL PRECAUTIONARY STATEMENTS

IRRITANT  
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY  
WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.  
WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.  
REFRIGERATE

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH  
COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.  
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH  
SOAP AND COPIOUS AMOUNT OF WATER.  
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.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.

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

#### EXTINGUISHING MEDIA

WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

#### SPECIAL FIRE-FIGHTING 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 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-----

### SECTION 8. -----EXPOSURE CONTROLS/PERSONAL PROTECTION-----

CHEMICAL SAFETY GOGGLES.  
RUBBER GLOVES.  
NIOSH/MSHA - APPROVED RESPIRATOR  
SAFETY SHOWER AND EYE BATH  
MECHANICAL EXHAUST REQUIRED.  
AVOID CONTACT AND INHALATION  
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
WASH THOROUGHLY AFTER HANDLING.  
IRRITANT.  
KEEP TIGHTLY CLOSED.  
REFRIGERATE.

### SECTION 9. -----PHYSICAL AND CHEMICAL PROPERTIES-----

#### APPEARANCE AND ODOR

YELLOW CRYSTALS  
MELTING POINT: 57 C TO 59 C

### SECTION 10. -----STABILITY AND REACTIVITY-----

#### INCOMPATIBILITIES

STRONG OXIDIZING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE  
NITROGEN OXIDES

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

### SECTION 12. -----ECOLOGICAL CONSIDERATIONS-----

DATA NOT YET AVAILABLE

### SECTION 13. -----DISPOSABLE CONSIDERATION-----

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 REGULATION.

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CONTACT COMPANY FOR TRANSPORTATION INFORMATION

### SECTION 15. -----REGULATORY INFORMATION-----

DATA NOT AVAILABLE

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

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REFER TO SECTION 8.