

# MATERIAL SAFETY DATA SHEET

MSDS DATE:07/30/07

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: LEISHMAN STAIN SOLUTION  
SYNONYMS: METHANOL; WOOD ALCOHOL; CARBINOL; METHYLOL; WOOD SPIRIT  
PRODUCT CODES: 26086-05

MANUFACTURER: ELECTRON MICROSCOPY SCIENCES  
DIVISION: 1560 INDUSTRY ROAD/P.O. BOX 550  
ADDRESS: HATFIELD, PA 19440

EMERGENCY PHONE: 215-412-8400  
CHEMTREC PHONE: 800-424 -4300

FAX PHONE: 215-412-8450

CHEMICAL NAME: METHYL ALCOHOL (CH<sub>3</sub>OH)  
CHEMICAL FAMILY: N/A

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**INGREDIENT:**  
LEISHMAN STAIN  
METHYL ALCOHOL (CH<sub>3</sub>OH)

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
12627-53-1	0.21	N/A	
67-56-1	N/A	100	

  

	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	N/A	N/A	
OSHA PEL STEL :	200	260	
OSHA PEL CEILING:	N/A	N/A-	

  

ACGIH TLV-TWA:	200	260	
ACGIH TLV STEL:	250	310	
ACGIH TLV CEILING:	N/A	N/A	

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## SECTION 3: HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW:

ROUTES OF ENTRY: INHALATION, SKIN, INGESTION

POTENTIAL HEALTH EFFECTS

EYES: N/A

SKIN: IRRITATION

INGESTION:DROWSINESS NAUSEA, VOMITING, INEBRIATION, DIZZINESS

INHALATION: DROWSINESS NAUSEA AND VOMITING

ACUTE HEALTH HAZARDS: POISON! INGESTION CAUSES INEBRIATION, HEADACHE, NAUSEA & VOMITING LEADING TO SEVERE ILLNESS, BLINDNESS, AND PERHAPS DEATH. LIQUID CAUSES IRRITATION. INHALATION OF VAPORS MAY CAUSE DROWSINESS, NAUSEA & VOMITING

CHRONIC HEALTH HAZARDS: : POISON! INGESTION CAUSES INEBRIATION, HEADACHE, NAUSEA & VOMITING LEADING TO SEVERE ILLNESS, BLINDNESS, AND PERHAPS DEATH. LIQUID CAUSES IRRITATION. INHALATION OF VAPORS MAY CAUSE DROWSINESS, NAUSEA & VOMITING

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE IDENTIFIED

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## CARCINOGENICITY

OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A

OTHER: N/A

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## SECTION 4: FIRST AID MEASURES

**EYES:** FLUSH WITH WATER FOR 15 MINUTES IF IRRITATION OCCURS. SEEK MEDICAL ATTENTION

**SKIN:** WASH WITH SOAP AND WATER. IF IRRITATION OCCURS. SEEK MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE

**INGESTION:** IF CONSCIOUS, IMMEDIATELY INDUCE VOMITING.

**INHALATION:** REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** N/A

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## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR, UPPER:** 36  
(% BY VOLUME)                      **LOWER:** 6.7

**FLASH POINT:**

F: 58 DEG

C: 15.5 DEG

**METHOD USED:** O.C.

**AUTOIGNITION TEMPERATURE:** N/A

F: N/A

C: N/A

**NFPA HAZARD CLASSIFICATION**

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

OTHER: N/A

**HMIS HAZARD CLASSIFICATION**

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

PROTECTION: N/A

**EXTINGUISHING MEDIA:** CARBON DIOXIDE, DRY CHEMICAL

**SPECIAL FIRE FIGHTING PROCEDURES:** FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** MAY PRODUCE TOXIC GASES OF CARBON MONOXIDE AND CARBON DIOXIDE. CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE

**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:**

WEAR PROPER PROTECTIVE CLOTHING, SHUT OFF IGNITION SOURCES. ABSORB SPILL ON PAPER TOWELS OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL AND CONTAINERIZE FOR PROPER DISPOSAL.

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## SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: KEEP CONTAINER TIGHTLY SEALED. STORE IN A COOL, DRY, WELL VENTILATED, FLAMMABLE LIQUID STORAGE AREA. KEEP AWAY FROM HEAT, FLAME, AND SPARKS. AVOID BREATHING VAPOR. AVOID ALL ROUTES EXPOSURE. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

OTHER PRECAUTIONS: N/A

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS:

VENTILATION: LOCAL EXHAUST, MECHANICAL (GENERAL)

RESPIRATORY PROTECTION: N/A

EYE PROTECTION: SAFETY GOGGLES/ FACE SHIELD

SKIN PROTECTION: RUBBER GLOVES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: APPROVED WORK CLOTHES

WORK HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING. WASH CLOTHING BEFORE REUSE. USE CARE WHEN HANDLING! AVOID ALL ROUTES OF EXPOSURE.

EXPOSURE GUIDELINES: AT CONCENTRATIONS ABOVE 200 PPM, A SELF CONTAINED BREATHING APPARATUS IS ADVISED

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: GREEN

ODOR: ODORLESS

PHYSICAL STATE: FLAMMABLE LIQUID

pH AS SUPPLIED: N/A

pH (Other): N/A

BOILING POINT: N/A

F: N/A

C: N/A

MELTING POINT: N/A

F: N/A

C: N/A

FREEZING POINT: N/A

F: N/A

C: N/A

VAPOR PRESSURE (mmHg): N/A

@

F: N/A

C: N/A

VAPOR DENSITY (AIR = 1): N/A

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F: N/A

C: N/A

@

F: N/A

C: N/A

EVAPORATION RATE: N/A

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BASIS (=1): N/A

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

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SOLUBILITY IN WATER: YES

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE: N/A  
BY WT/ BY VOL @

F: N/A

C: N/A

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: N/A LBS/GAL  
WITHOUT WATER: N/A LBS/GAL

MOLECULAR WEIGHT: N/A

VISCOSITY: N/A

@

F: N/A

C: N/A

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## SECTION 10: STABILITY AND REACTIVITY

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STABILITY: STABLE

CONDITIONS TO AVOID (STABILITY): HEAT, FLAMES, AND SPARKS

INCOMPATIBILITY (MATERIAL TO AVOID): OXIDIZERS, SODIUM OR POTASSIUM HYDROXIDE PLUS CHLOROFORM

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N/A

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID (POLYMERIZATION): N/A

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: N/A

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: N/A

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: COMPLY WITH FEDERAL, STATE, LOCAL REGULATIONS.

RCRA HAZARD CLASS: N/A

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## SECTION 13: DISPOSAL CONSIDERATIONS (con't)

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: LEISHMAN'S STAIN SOLUTION  
HAZARD CLASS: N/A  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENT: FLAMMABLE LIQUID

### WATER TRANSPORTATION

PROPER SHIPPING NAME:  
HAZARD CLASS: SAME  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

### AIR TRANSPORTATION

PROPER SHIPPING NAME:  
HAZARD CLASS: SAME  
ID NUMBER:  
PACKING GROUP:  
LABEL STATEMENTS:

OTHER AGENCIES: N/A

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION: N/A

PREPARATION INFORMATION: N/A

DISCLAIMER: IN COMPLIANCE WITH THE OSHA HAZARD COMMUNICATION STANDARD, 2.9 C.F.R 1910. 1200, WE ARE PROVIDING YOU WITH A MSDS FOR THE HAZARDOUS MATERIAL YOU ARE PURCHASING.

IT IS YOUR RESPONSIBILITY TO EDUCATE YOUR EMPLOYEES ON THE SAFE USE OF THE HAZARDOUS MATERIAL.

ELECTRON MICROSCOPY SCIENCES MAKES NO PRESENTATION AS TO THE ACCURACY OF THE INFORMATION IN THE MSDS. THE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, YOU (THE CUSTOMER), SHOULD PERFORM YOUR OWN INVESTIGATION AND INDEPENDENT VERIFICATION. IF YOU RESELL THE PRODUCT, YOU ARE RESPONSIBLE TO FORWARD THE INFORMATION IN THE MSDS TO YOUR CUSTOMER.