

MATERIAL SAFETY DATA SHEET

MSDS DATE:07/12/07

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: OIL RED O SOLUTION

SYNONYMS: 1,2-PROPANEDIOL, 1,2, DIHYDROXYPROPANE, METHYLENE GLYCOL, PROPANE-1-1- DIOL

PRODUCT CODES: 26079-15

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: N/A

CHEMICAL FAMILY: N/A

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

OIL RED O (C₂₆H₂₄N₄O)

PROPYLENE GLYCOL, ABSOLUTE (CH₂CH(OH)CH₂OH)

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
1320-06-5	N/A	0.5	
57-55-6	N/A	99.5	
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	N/A	N/A	
OSHA PEL STEL :	N/A	N/A	
OSHA PEL CEILING:	N/A	N/A	
ACGIH TLV-TWA:	N/A	N/A	
ACGIH TLV STEL:	N/A	N/A	
ACGIH TLV CEILING:	N/A	N/A	

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:N/A

POTENTIAL HEALTH EFFECTS

EYES: IRRITATION TO EYES

SKIN: IRRITATION TO SKIN

INGESTION: N/A

INHALATION: N/A

ACUTE HEALTH HAZARDS: OIL RED O IS A POSSIBLE CARCINOGEN!

CHRONIC HEALTH HAZARDS: OIL RED O IS A POSSIBLE CARCINOGEN!

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

CARCINOGENICITY

OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A

PAGE 1 OF 5

MATERIAL SAFETY DATA SHEET

MSDS DATE:07/12/07

OTHER:

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.

INGESTION: CALL A PHYSICIAN AND INDUCE VOMITING

INHALATION: N/A

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

F: N/A

C: N/A

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

F: N/A

C: N/A

NFPA HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

OTHER: N/A

HMS HAZARD CLASSIFICATION

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

PROTECTION: N/A

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY

SPECIAL FIRE FIGHTING PROCEDURES: MOVE EXPOSED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE SO WITHOUT RISK

UNUSUAL FIRE AND EXPLOSION HAZARDS: CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: WEARING SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING, TAKE UP WITH SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND CONTAINERIZE FOR PROPER DISPOSAL. FLUSH SPILL AREA WITH WATER.

SECTION 7: HANDLING AND STORAGE

MATERIAL SAFETY DATA SHEET

MSDS DATE:07/12/07

HANDLING AND STORAGE: KEEP AWAY FROM HEAT. KEEP AWAY FROM SOURCES OF IGNITION. AVOID CONTACT WITH SKIN, EYES, AND CLOTHINNG. KEEP IN TIGHTLY CLOSED CONTAINER. WASH THOROUGHLY AFTER HANDLING

OTHER PRECAUTIONS: N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION: LOCAL EXHAUST, MECHANICAL (GENERAL)

RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION EXISTS

EYE PROTECTION: SAFETY GOGGLES

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.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: RED

ODOR: MILD ODOR

PHYSICAL STATE: THICK LIQUID

pH AS SUPPLIED: N/A

pH (Other): N/A

BOILING POINT:

F: N/A

C:188.2 DEG

MELTING POINT: N/A

F: N/A

C: N/A

FREEZING POINT: N/A

F: N/A

C: N/A

VAPOR PRESSURE (mmHg): 0.08

@

F: N/A

C: 20 DEG

VAPOR DENSITY (AIR = 1): 2.62

@

F: N/A

C: N/A

@

F: N/A

C: N/A

EVAPORATION RATE:

BASIS (=1): 0.005

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

MATERIAL SAFETY DATA SHEET

MSDS DATE:07/12/07

SOLUBILITY IN WATER: N/A

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

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID (STABILITY): N/A

INCOMPATIBILITY (MATERIAL TO AVOID): FLAME, SOURCES OF IGNITION, OXIDIZING MATERIAL

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: PROPIONALDEHYDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: THE TOXICOLOGICAL PROPERTIES OF OIL RED O HAVE NOT BEEN FULLY INVESTIGATED. AVOID ALL ROUTES OF EXPOSURE. OIL RED O IS A POSSIBLE CARCINOGEN

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY. HOWEVER, LONG TERM DEGRADATION PRODUCTS MAY ARISE.

SECTION 13: DISPOSAL CONSIDERATIONS

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

RCRA HAZARD CLASS: N/A

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:

NOT A DOT CONTROLLED MATERIAL
PAGE 4 OF 5

MATERIAL SAFETY DATA SHEET

MSDS DATE:07/12/07

HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME: N/A
HAZARD CLASS:
ID NUMBER:
PACKING GROUP:
LABEL STATEMENTS:

OTHER AGENCIES: N/A

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): 8(b) INVENTORY: PROPYLENE GLYCOL

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

SECTION 16: OTHER INFORMATION

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.