



36 Draffin Road, Hilton, NY 14468 Phone: 800-828-6351 585-392-3434 Fax: 585-392-2691
EMERGENCY NUMBERS: CHEMTREC (800) 424-9300 Monroe Fluid Technology (800) 828-6351
Website: <http://www.monroefluid.com>

Material Safety Data Sheet

Product Name: **ASTROSOL EP** Effective Date: 03/17/08 Date Printed: 06/03/08 Page: 1

HMIS Rating:

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: B

1) INGREDIENTS: (% wt., unless otherwise noted)

CHEMICAL NAME	CAS #	%
Heavy Naphthenic, severely hydrotreated chemically neutralized oil	64742-52-5	50-70
(1,1'Biphenyl)-2-ol	90-43-7	1-5
Alkanolamine	141-43-5	1-5
Dipropylene Glycol Methyl Ether	34590-94-8	1-5

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2) PHYSICAL DATA:

Boiling Point:	105° C.
Vapor Pressure:	Not Determined
Vapor Density:	Not Determined
Solubility In Water:	Complete/Forms emulsion
pH: @ 20:1 in water:	9.5 ± 0.3
Sp. Gravity:	0.943 ± 0.01
Appearance:	Amber liquid
Odor:	Bland

3) FIRE AND EXPLOSION HAZARD DATA:

Flash Point:	355° F.
Method Used:	COC

FLAMMABLE LIMITS:

LFL:	Not determined
UFL:	Not determined

EXTINGUISHING MEDIA: Water spray, foam or carbon dioxide

FIRE & EXPLOSION HAZARDS: Intense heat may cause drums to rupture. Cool fire-exposed surfaces.

FIRE-FIGHTING EQUIPMENT: Treat as hot oil. Firefighters should wear NIOSH-approved self-contained breathing apparatus.

4) REACTIVITY DATA:

STABILITY: (conditions to avoid) Stable under normal use and storage

INCOMPATIBILITY: (specific materials to avoid) Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce asphyxiants.



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HAZARDOUS POLYMERIZATION: Will not occur

5) ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Treat as oil spill. Contain spill, collect onto inert absorbent. Do not flush into drain or sewers. Place in a DOT container for disposal.

DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

6) HEALTH HAZARD DATA:

EYE: Contact may cause irritation.

SKIN CONTACT: Prolonged contact may cause irritation.

SKIN ABSORPTION: Not likely to occur

INGESTION: Small amounts ingested incidental to normal handling are not likely to cause injury; Larger quantities ingested may cause injury.

INHALATION: Inhalation of vapors or mist may be irritating to respiratory passages.

SYSTEMIC (other target organ) EFFECTS: None known

TERATOLOGY (birth defects): No adverse effects expected

REPRODUCTIVE EFFECTS: No adverse effects expected

MUTAGENICITY (effects on genetic material): No adverse effects expected

CARCINOGENICITY: IARC: NO NTP: NO OSHA: NO

7) FIRST AID:

EYES: Flush with large amounts of water for 15 minutes. If irritation persists, consult a physician.

SKIN: Wash off with soap in flowing water or shower.

INGESTION: Obtain medical assistance.

INHALATION: Remove to fresh air. If symptoms persist, consult a physician.

NOTE TO PHYSICIAN: Treatment of overexposure should be directed toward the control of symptoms and the clinical condition.

8) HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE:

Alkanolamine OSHA PEL: 3 ppm TWA

(1,1'-Biphenyl)-2-ol : 1 mg/m³ TWA

Dipropylene Glycol Methyl Ether: OSHA PEL & ACGIH TLV: 100 ppm TWA: 150 ppm STEL

Heavy Naphthenic, severely hydrotreated chemically neutralized oil (Mist) OSHA PEL: 5 mg/m³

VENTILATION: General room ventilation should be satisfactory. Local exhaust ventilation may be necessary if misting is generated.

RESPIRATORY PROTECTION: None normally required. If mist is in excess of 5 mg/m³, use NIOSH-approved respirator.

SKIN PROTECTION: Oil-resistant gloves for prolonged or repeated contact

EYE PROTECTION: Safety glasses



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9) ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Product contains Amines. Sodium Nitrite or other nitrosating agents should not be added to this product. This step will prevent the formation of nitrosamines which are known to be animal carcinogens.

Normal precautions common to good manufacturing practices should be followed in handling and storing. Store away from food. Wash hands before eating, drinking or smoking and after handling. Use as directed.

REGULATORY INFORMATION: (Not meant to be all-inclusive--selected regulations represented).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

US Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA inventory.

SARA Section 311/312 Hazard Categories: Immediate health hazard; Chronic health hazard

US EPCRA SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65):

Chemical	CAS Number	Amount by weight
(1,1'Biphenyl)-2-ol	90-43-7	1-5%

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) Section 103

This product contains the following ingredient(s) which are regulated under the CERCLA Section 103 and subject to all reporting requirements:

Chemical	CAS Number	Amount by weight
(1,1'Biphenyl)-2-ol	90-43-7	1-5%

California Proposition 65

WARNING: This product contains the following chemical(s) known to the State of California to cause cancer:

Chemical	CAS Number	Amount by weight
(1,1'Biphenyl)-2-ol	90-43-7	1-5%

This notice must not be detached from the foregoing MSDS. If the MSDS is copied for any reason, including distribution, this notice must also be copied and accompany all redistributed MSDS'. Failure to do so may subject you to penalties under law.

10) TRANSPORTATION INFORMATION:

PROPER SHIPPING NAME: Non-regulated

DOT HAZARD CLASS: Non-regulated