

**MATERIAL SAFETY DATA SHEET**

**ExxonMobil Chemical Company**  
**A Division of Exxon Mobil Corporation**

**DATE PREPARED: MAY 12, 2005****MSDS NO.:****MINERAL SPIRITS****SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** Mineral Spirits**CHEMICAL NAME:**

Not Applicable

8052-41-3

**CHEMICAL FAMILY:**

Petroleum Hydrocarbon

**PRODUCT DESCRIPTION:**

Clear colorless liquid with a petroleum odor.

**CONTACT ADDRESS:**

ExxonMobil Chemical Company  
 P.O. Box 3272, Houston, Texas 77253-3272

**	<b>EMERGENCY TELEPHONE NUMBERS: (24 Hours)</b>	**
**	<b>CHEMTREC (800) 424-9300</b>	**
**	<b>ExxonMobil Chemical Company (800) 726-2015</b>	**

NON EMERGENCY TELEPHONE NUMBERS : (8am-5pm M-F)  
 FOR GENERAL PRODUCT INFORMATION CALL : (281) 870-6000  
 FOR HEALTH AND MEDICAL INFORMATION CALL : (281) 870-6884

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

The composition of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to a physician or nurse.

This product is hazardous as defined in 29 CFR1910.1200, based on the following compositional information:

**OSHA HAZARD**

**Combustible**  
**OSHA PEL; ACGIH TLV**  
**OSHA PEL; ACGIH TLV**  
**Possible Carcinogen**

**COMPONENT**

Petroleum hydrocarbons  
 Stoddard Solvent  
 Trimethylbenzene, Ethylbenzene, Naphthalene  
 Ethylbenzene, Naphthalene

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## SECTION 3 HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

#### EYE CONTACT:

Slightly irritating but does not injure eye tissue.

#### SKIN CONTACT:

Frequent or prolonged contact may irritate and cause dermatitis.

Low order of toxicity.

Skin contact may aggravate an existing dermatitis condition.

#### INHALATION:

High vapor/aerosol concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anaesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death

#### INGESTION:

Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Minimal toxicity.

#### CHRONIC EFFECTS

This product contains ethylbenzene. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. This product contains naphthalene. The International Agency for Research on Cancer evaluated naphthalene and concluded that there was sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Accordingly, IARC classified naphthalene as a possible human carcinogen (Group 2B).

The U.S. National Toxicology Program (NTP) has evaluated naphthalene and found that it may be reasonably anticipated to be a human carcinogen.

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## SECTION 4 FIRST AID MEASURES

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### EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

### SKIN CONTACT:

Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse.

### INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

### INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

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## SECTION 5 FIRE-FIGHTING MEASURES

**FLASH POINT:** 104 Deg F. METHOD: TCC ASTM D56 NOTE: Minimum  
**FLAMMABLE LIMITS:** LEL: 0.7 UEL: 5.5 @ 77 Deg F. NOTE: Approximate  
**AUTOIGNITION TEMP.:** 504 Deg F. NOTE: Approximate

### GENERAL HAZARD

Combustible Liquid, can form combustible mixtures at temperatures at or above the flashpoint.  
Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge .  
"Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.  
Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

### FIRE FIGHTING

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire.  
Use foam, dry chemical, or water spray to extinguish fire.  
Avoid spraying water directly into storage containers due to danger of boilover.  
This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground

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or surface to ignition sources where they may ignite or explode.

## DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

No unusual

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

### LAND SPILL

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 REGULATORY INFORMATION) notify the National Response Center.

Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.

Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### WATER SPILL

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.

Remove from surface with suitable adsorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

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## SECTION 7 STORAGE AND HANDLING

### ELECTROSTATIC ACCUMULATION HAZARD

Yes, use proper bonding and/or grounding procedure.

Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1220 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77

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entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).

**STORAGE TEMPERATURE** Deg F:

Ambient

**LOADING/UNLOADING TEMPERATURE** Deg F:

Ambient

**STORAGE/TRANSPORT PRESSURE** mmHg:

Atmospheric

**LOADING/UNLOADING VISCOSITY** cSt:

1.2

**STORAGE AND HANDLING:**

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****EXPOSURE CONTROLS**

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a lab hood. Provide mechanical ventilation of confined spaces. See respiratory protection recommendations.

**PERSONAL PROTECTION**

For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves. Where contact may occur, wear safety glasses with side shields. Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

**WORKPLACE EXPOSURE GUIDELINES**

OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:

A TWA of 100 ppm (525 mg/m<sup>3</sup>) for Stoddard Solvent.

A TWA of 25 ppm (125 mg/m<sup>3</sup>) for Trimethyl Benzene.

A TWA of 100 ppm (435 mg/m<sup>3</sup>) and a STEL of 125 ppm (545 mg/m<sup>3</sup>) for

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Ethyl Benzene.

A TWA of 10 ppm (50 mg/m<sup>3</sup>) and a STEL of 15 ppm (75 mg/m<sup>3</sup>)  
 for Naphthalene.

The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, ExxonMobil Chemical Company recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

A TWA of 100 ppm (525 mg/m<sup>3</sup>) for Stoddard Solvent.

A TWA of 25 ppm (123 mg/m<sup>3</sup>) for Trimethyl Benzene.

A TWA of 100 ppm (434 mg/m<sup>3</sup>) and a STEL of 125 ppm (543 mg/m<sup>3</sup>) for Ethyl Benzene with an A3 designation.

A TWA of 10 ppm (52 mg/m<sup>3</sup>) and a STEL of 15 ppm (79 mg/m<sup>3</sup>) for Naphthalene, with skin and A4 designations.

ExxonMobil RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS:

a TWA of 400 mg/m<sup>3</sup> (66 ppm) based on total hydrocarbon.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>SPECIFIC GRAVITY at Deg F:</b>	0.80 at 60
<b>VAPOR PRESSURE, mmHg at Deg F:</b>	1.6 at 68 Approximate
<b>SOLUBILITY IN WATER, wt. % at Deg F:</b>	Less than 0.01 at 77
<b>VISCOSITY OF LIQUID, cSt at Deg F:</b>	1.3 at 77
<b>SP. GRAV. OF VAPOR, at 1 atm (Air=1):</b>	3.50 Calculated
<b>FREEZING/MELTING POINT, Deg F:</b>	-57 (Pour Point)
<b>EVAPORATION RATE, n-Bu Acetate=1:</b>	Less than 0.1
<b>BOILING POINT, Deg F:</b>	315 to 394

**SECTION 10 STABILITY AND REACTIVITY****STABILITY:**

Stable

**CONDITIONS TO AVOID INSTABILITY:**

Not applicable

**HAZARDOUS POLYMERIZATION:**

Will not occur

**CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:**

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Not Applicable

**MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:**

Halogens, molten sulfur, strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

None

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**SECTION 11 TOXICOLOGICAL INFORMATION**

Please refer to Section 3 for available information on potential health effects.

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**SECTION 12 ECOLOGICAL INFORMATION**

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

Please refer to Sections 5, 6 and 15 for disposal and regulatory information.

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**SECTION 14 TRANSPORT INFORMATION**

**DEPARTMENT OF TRANSPORTATION (DOT):**

DOT SHIPPING DESCRIPTION: PETROLEUM DISTILLATE, N.O.S., COMBUSTIBLE LIQUID  
UN 1268, III

Note: In containers of 119 gallons capacity or less this product is not regulated by DOT.

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**SECTION 15 REGULATORY INFORMATION**

**TSCA:**

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This product is listed on the TSCA Inventory as a UVCB (Unknown, Variable Composition or Biological) Chemical at CAS Registry Number 8052-41-3

**Clean Water Act/Oil Pollution Act:**

This product is classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must be reported to the National Response Center at 800-424-8802.

**CERCLA:**

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act. We recommend you contact local authorities to determine if there may be other local reporting requirements.

**SARA TITLE III:**

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:

Delayed Health, Fire.

This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

This product contains the following Section 313 Reportable Ingredients:

<u>COMPONENT</u>	<u>CAS #</u>	<u>MAX. %</u>
1,2,4 Trimethylbenzene	95-63-6	4.0

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**SECTION 16 OTHER INFORMATION****NOTES:**

Contains approximately 10 ppm BHT as an antioxidant to protect product quality.

**HAZARD RATING SYSTEMS:**

This information is for people trained in:  
National Paint & Coatings Association's (NPCA)  
Hazardous Materials Identification System (HMIS)  
National Fire Protection Association (NFPA 704)  
Identification of the Fire Hazards of Materials

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	<b>NPCA-HMIS</b>	<b>NFPA 704</b>	<b>KEY</b>
<b>HEALTH</b>	<b>1</b>	<b>0</b>	4 = Severe
<b>FLAMMABILITY</b>	<b>2</b>	<b>2</b>	3 = Serious
<b>REACTIVITY</b>	<b>0</b>	<b>0</b>	2 = Moderate
			1 = Slight
			0 = Minimal

CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

**REVISION SUMMARY:**

Since February 12, 2005 this MSDS has been revised in Section(s):  
 3

**REFERENCE NUMBER:**  
**HDHA-C-25038**

**SUPERSEDES ISSUE DATE:**  
**February 12, 2005**

Document Group Number: 4400175HUS

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