



# Material Safety Data Sheet

MSDS ID NO.: 0331MAR019  
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## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product name:** Marathon Full Synthetic SAE 50  
**Synonym:** Marathon Full Synthetic SAE 50 (Eaton Approved); Full Synthetic SAE 50 (Eaton Approved), Marathon  
**Chemical Family:** Synthetic Lubricant  
**Formula:** Mixture

**Manufacturer:**  
Marathon Petroleum Company LP  
539 South Main Street  
Findlay OH 45840

**Other information:** 419-421-3070  
**Emergency telephone number:** 877-627-5463

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary synthetic gear lubricant.

### Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Marathon Full Synthetic SAE 50	Mixture	100			

### Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Proprietary Components	Proprietary	100			
Oil Mist, Mineral	8012-95-1	1-100	5 mg/m <sup>3</sup> TWA	= 5 mg/m <sup>3</sup> TWA	

**Notes:** The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

THIS LUBRICANT IS A NON-VOLATILE AND NON-COMBUSTIBLE, AMBER COLORED LIQUID, BUT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

**Inhalation:**

Based on the effects of similar components, exposure to vapor may cause respiratory irritation.

**Ingestion:**

May be harmful if swallowed in large quantities.

**Skin contact:**

Similar materials are not classified as skin irritants.

**Eye contact:**

Contact with eyes may cause irritation

**Carcinogenic Evaluation:**

**Product information:**

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Marathon Full Synthetic SAE 50 Mixture	NE			

**Notes:**

The International Agency for Research on Cancer (IARC) has not evaluated this product.

**Component Information:**

**Notes:**

No data available.

### 4. FIRST AID MEASURES

**Eye Contact:**

Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.

**Skin Contact:**

Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.

If product is accidentally injected into or under the skin, regardless of wound size or initial absence of symptoms, the individual should be evaluated immediately by a physician as a surgical emergency.

**Ingestion:**

If large amounts are swallowed, immediately call a physician.

**Inhalation:**

If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.

**NOTES TO PHYSICIAN:**

No data available.

## 4. FIRST AID MEASURES

### Medical Conditions

#### Aggravated

#### By Exposure:

Skin contact could aggravate an existing skin disorder or dermatitis condition.

## 5. FIRE FIGHTING MEASURES

### Suitable extinguishing media:

For small fires, Class B fire extinguishing media such as CO<sub>2</sub>, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

### Specific hazards:

This material is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at elevated temperatures.

### Unusual hazards:

Fine particle sulfur dust dispersed in air in sufficient concentrations, and in the presence of an ignition source could cause a potential dust explosion hazard. Explosion potential would vary depending on size and dispersion of dust. For additional fire related information, see NFPA 654. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.

### Special protective equipment for firefighters:

### Flash point:

>375°F (>190°C) Cleveland Open Cup

### Autoignition temperature:

No data available.

### Flammable limits in air - lower (%):

No data available.

### Flammable limits in air - upper (%):

No data available.

### NFPA rating:

Health: 1

Flammability: 1

Instability: 0

Other: -

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Advise local and state emergency services agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

## 7. HANDLING AND STORAGE

### Handling:

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Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Do not pressurize or expose to heat, open flames, strong oxidizers or other sources of ignition.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Danger of slipping on spilled product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

<b>Engineering measures:</b>	Local or general exhaust required when using at elevated temperatures that generate vapors or mists.
<b>Respiratory protection:</b>	Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators should be worn when significant vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 1910.134. Self-contained breathing apparatus should be used for fire fighting. Use atmosphere supplying respirators in confined spaces or when vapors exceed permissible limits.
<b>Skin and body protection:</b>	Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged or repeated skin contact.
<b>Eye protection:</b>	Safety glasses with side-shields.
<b>Hygiene measures:</b>	No special protective clothing is normally required. Select protective clothing depending on industrial operations. Use mechanical ventilation equipment that is explosion-proof.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

<b>Appearance:</b>	Dark Liquid
<b>Physical state (Solid/Liquid/Gas):</b>	Liquid
<b>Substance type (Pure/Mixture):</b>	Mixture
<b>Color:</b>	Amber
<b>Odor:</b>	Not significant
<b>Molecular weight:</b>	Not determined.
<b>pH:</b>	Neutral
<b>Boiling point/range (5-95%):</b>	No data available.
<b>Melting point/range:</b>	Not determined.
<b>Decomposition temperature:</b>	Not applicable.
<b>Specific gravity:</b>	Not determined
<b>Density:</b>	0.8610 g/cm <sup>3</sup>
<b>Bulk density:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Vapor pressure:</b>	No data available
<b>Evaporation rate:</b>	No data available.
<b>Solubility:</b>	Insoluble
<b>Solubility in other solvents:</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>VOC content(%):</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	The material is stable at 70 F, 760 mm pressure.
<b>Polymerization:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Carbon monoxide, carbon dioxide, aldehydes, hydrogen sulfide, oxides of sulfur, oxides of nitrogen and oxides of phosphorous.
<b>Materials to avoid:</b>	Strong oxidizers such as nitrates, chlorates, peroxides. Strong acids and strong bases
<b>Conditions to avoid:</b>	Heat and open flames.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

### Product information:

Name	CAS Number	Inhalation:	Dermal:	Oral:
Marathon Full Synthetic SAE 50	Mixture	No data available	No data available	No data available

### Toxicology Information:

No product toxicology data are available on this product. The hazard evaluation was based on data of the components.

## 12. ECOTOXICOLOGICAL INFORMATION

### Mobility:

No data available.

### Ecotoxicity:

No data available.

### Bioaccumulation:

No data available.

### Persistence/Biodegradation:

Used motor and/or lube oils can be toxic to birds and fish.

## 13. DISPOSAL CONSIDERATIONS

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**Cleanup Considerations:**

This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Don't pollute. Conserve resources. Send used product to recycling center. Dispose of cleanup materials in accordance with applicable local, state and federal regulations.

### 14. TRANSPORT INFORMATION

**49 CFR 172.101:**

**DOT:**

**Transport Information:** This material when transported via US commerce is NOT REGULATED by DOT regulations.

**Packing group:** Not applicable.  
**DOT reportable quantity (lbs):** Not Applicable.....Not Applicable.

**Regulated substances:** Not applicable.....Not applicable.

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### 15. REGULATORY INFORMATION

**US Federal Regulatory Information:**

**US TSCA Chemical Inventory Section 8(b):** This product and/or its components are listed on the TSCA Chemical Inventory.

**OSHA Hazard Communication Standard:** This product has been evaluated and determined not to be hazardous as defined in OSHA's Hazard Communication Standard.

**EPA Superfund Amendment & Reauthorization Act (SARA):**

**SARA Section 302:** This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Proprietary Components	NA
Oil Mist, Mineral	NA

**SARA Section 304:**

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Proprietary Components	NA
Oil Mist, Mineral	NA

**SARA Section 311/312**

The following EPA hazard categories apply to this product:

None

**SARA Section 313:**

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Proprietary Components	None
Oil Mist, Mineral	None

**State and Community Right-To-Know Regulations:**

The following component(s) of this material are identified on the regulatory lists below:

## Proprietary Components

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

## Oil Mist, Mineral

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present (mist)
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Flammable; Toxic
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed

Proprietary Components

New Jersey - Environmental Hazardous Substances List: Not Listed  
Illinois - Toxic Air Contaminants Not Listed  
New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

**Canadian Regulatory Information:**

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Oil Mist, Mineral	Uncontrolled product according to WHMIS classification criteria	1 %

**NOTE:** Not Applicable.

**16. OTHER INFORMATION**

**Additional Information:** No data available.

**Prepared by:** Mark S. Swanson, Manager, Toxicology and Product Safety

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**End of Safety Data Sheet**