

Material Safety Data Sheet

MSDS ID NO.: 0175MAR019 **Revision date:** 12/07/2010

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code: MR0290

Product name: Marathon HF Oil

Synonym: Marathon HF Oil; Hydraulic & Flushing Oil; HF 5W Oil; 287 HF Oil

Chemical Family: Motor/Lube Oil

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

Lube oil is a complex mixture of highly refined lubricating base stocks and additives.

Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Marathon HF Oil	Mixture	100			

Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	64742-54-7	98-100			Mineral Oil Mist (MOM) =5 mg/m³ TWA = 10 mg/m³ STEL

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.

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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

THIS PRODUCT IS A NON-VOLATILE AND NON-COMBUSTIBLE, YELLOW BROWN COLORED LIQUID, BUT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

Inhalation:

No acute effects expected from routine operations. Overheating of product may produce vapors which can cause respiratory irritation, dizziness and nausea.

Ingestion:

Product has a low order of acute toxicity. This is based on data from components or similar products.

Skin contact:

Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.

Eye contact:

Liquid or vapor contact may result in slight eye irritation.

Carcinogenic Evaluation:

Product information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Marathon HF Oil	NE			
Mixture				

Notes:

The International Agency for Research on Cancer (IARC) has determined that there is no evidence that severely solvent-refined oils are carcinogenic to experimental animals.

Component Information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	Supplement 7 [1987], Monograph 33 [1984]			Present
64742-54-7				

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:

Not expected to be acutely toxic. If large amounts are swallowed, immediately call a

physician.

Inhalation:

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4. FIRST AID MEASURES

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.

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

can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

This material is not combustible per the OSHA Hazard

Communication Standard, but will ignite and burn at elevated temperatures.

CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC)

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.

>380 F, >193.3 C No data available. No data available. No data available.

Specific hazards:

Special protective equipment for firefighters:

Flash point:

Autoignition temperature:

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

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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7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Engineering measures: Local or general exhaust required when using at elevated temperatures that

generate vapors or mists.

Respiratory protection: 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.

Skin and body protection: Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged

or repeated skin contact.

Eye protection: No special eye protection is normally required.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Yellow Brown Liquid

Physical state (Solid/Liquid/Gas): Liquid Substance type (Pure/Mixture): Pure

Color:Yellow-brownOdor:HydrocarbonMolecular weight:Not determined.

pH: Boiling point/range (5-95%):Neutral
>425 F, > 218.3 C

Melting point/range:Not determined.Decomposition temperature:Not applicable.Specific gravity:0.865 @ 60 FDensity:7.21 lbs/gal @ 60 FBulk density:No data available.

Vapor density: >10.0

Vapor pressure:<1 mm Hg @ 100 F</th>Evaporation rate:No data available.

Solubility: Negligible

Solubility in other solvents:

No data available.

Partition coefficient (n-octanol/water): >4.9

VOC content(%):No data available.Viscosity:19.8 cSt @ 40 C4.05 cSt @ 100 C

10. STABILITY AND REACTIVITY

Stability: The material is stable at 70 F, 760 mm pressure.

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Polymerization: Will not occur.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, aldehydes and

hydrocarbons.

Materials to avoid: Strong oxidizers such as nitrates, chlorates, peroxides.

Conditions to avoid: Heat and open flames.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Product information:

Name	CAS Number	Inhalation:	Dermal:	Oral:
Marathon HF Oil	Mixture	LD50 = 2.18 to >4 mg/l	LD50 >2 gm/kg	LD50 >5 ml/kg
		[Rat]	[Rabbit]	[Rat]

Toxicology Information:

Based on data from components this product is considered to have a low order of acute oral and dermal toxicity. Chronic skin painting studies with severely solvent refined neutral oils did not produce evidence of skin cancer in mice.

12. ECOTOXICOLOGICAL INFORMATION

Mobility:

No data available.

Ecotoxicity:

No data available.

Bioaccummulation:

No data available.

Persistance/Biodegradation:

Water accomated fractions (WAF) of highly refined base oils did not produce acute toxicity in fish (100-1000 mg/l), fresh water algae (500 mg/l) or daphnia (10,000 mg/l) in 48-96 hour LC50 studies.

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

13. DISPOSAL CONSIDERATIONS

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.

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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:

DOT reportable quantity (lbs):

Not applicable.

Not applicable.

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
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	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
Solvent Refined, Hydrotreated Heavy	NA
Paraffinic Distillate	

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:
Solvent Refined, Hydrotreated Heavy	None
Paraffinic Distillate	

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State and Community Right-To-Know Regulations:

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

Solvent Refined, Hydrotreated Heavy Paraffinic Distillate

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 Not Listed

Substances:

California - Regulated Carcinogens:

Not Listed
Pennsylvania RTK - Special Hazardous

Not Listed

Substances:

New Jersey - Special Hazardous Substances: carcinogen
New Jersey - Environmental Hazardous Not Listed

Substances List:

Illinois - Toxic Air Contaminants Not Listed
New York - Reporting of Releases Part 597 - Not Listed

List of Hazardous Substances:

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.

NOTE: Not Applicable.

16. OTHER INFORMATION

Additional Information: No data available.

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End of Safety Data Sheet

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